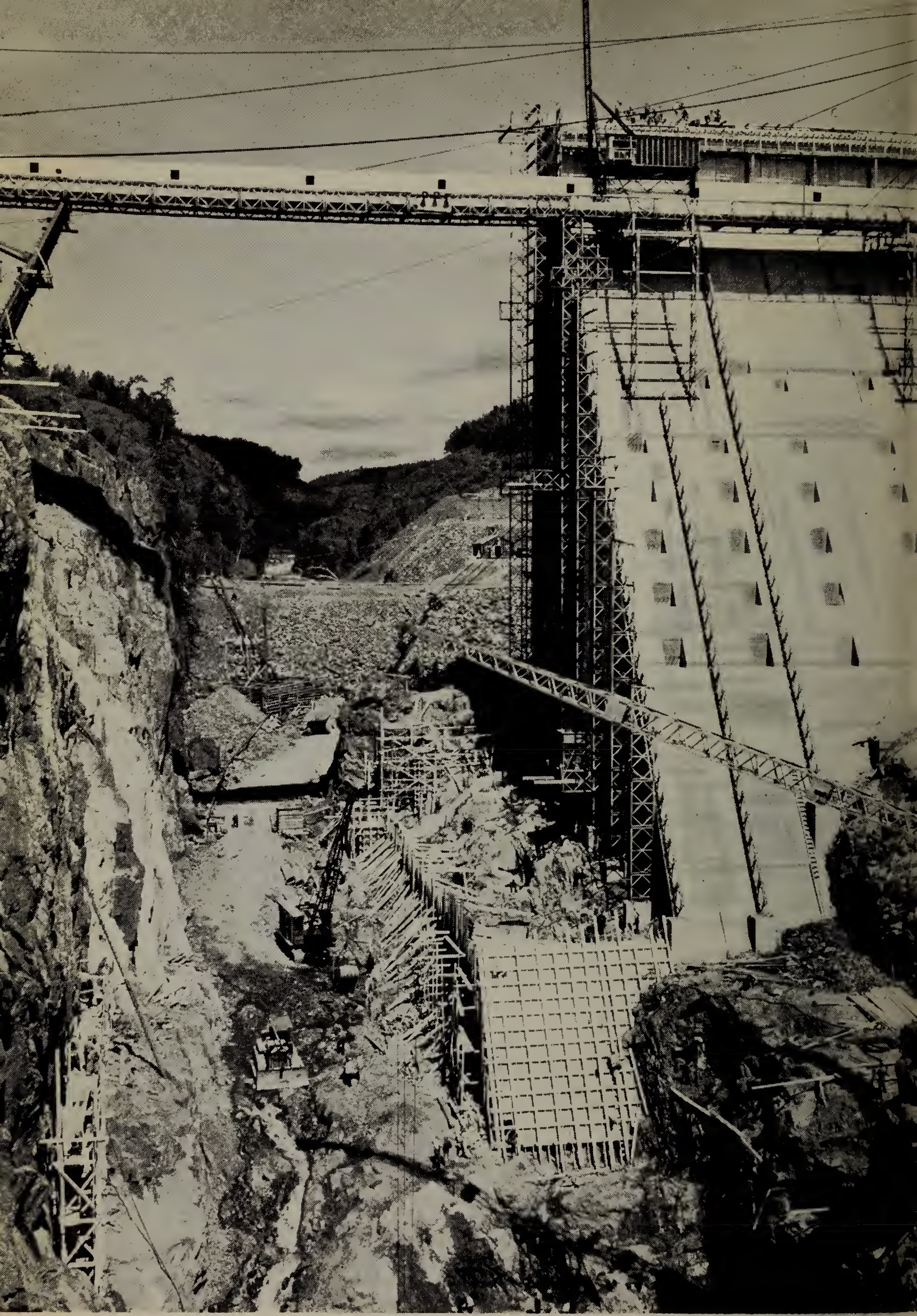

TUNNEL—Looking upstream through incompleted portion of dam

FORTY-SECOND ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1949

ONTARIO

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THE LEGISLATIVE ASSEMBLY OF ONTARIO

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1950

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

1948

Robert H. Saunders, C.B.E., K.C. .... *Chairman*

Hon. George H. Challies, Phm.B., M.L.A. .... *1st Vice-Chairman*

W. Ross Strike, K.C. .... *2nd Vice-Chairman*

R. L. Hearn
General Manager
and Chief Engineer

E. B. Easson
Secretary

HEAD OFFICE
620 UNIVERSITY AVENUE - TORONTO, ONTARIO
CANADA

LETTER OF TRANSMITTAL

TORONTO, ONTARIO, MARCH 31, 1950

THE HONOURABLE RAY LAWSON, O.B.E., LL.D.,

Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

It is my privilege to present the Forty-second Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31, 1949. In my review certain statistical information relates to the fiscal year, but as the context will show general statements relating to 1949 refer to the calendar year.

A review of recent history of Hydro in Ontario is a reminder of the difficult days of 1948 and of the effect of restrictions in the use of power. These brought clearly before us the great importance of electricity in the industrial and agricultural life of the Province. It is the duty of the Commission and those associated with Hydro to ensure through leadership and foresight that all future power requirements of the Province will be met.

The Commission entered the calendar year 1949 with full realization of its responsibilities, not discounting the vital necessity of securing new power to provide for the fall and winter months. The expediting of construction schedules became the first consideration of the Commission in a determined effort to advance the completion dates of the new plants under construction. The months which will be saved between the originally estimated dates and the actual time when these new plants will be brought into service are vivid evidence of the tremendous effort put forth by the Commission's general manager, Mr. Richard L. Hearn, and his associates in management and engineering.

It is with pride and gratitude that we regard the year 1949 as the year of greatest achievement in the forty-two years of Hydro's history.

In less than twelve months, emergency steam and diesel electric units, totalling 63,000 kilowatts, were brought into service, of which 43,000 kilowatts were available within ten months; arrangements were completed for an additional 82,000 kilowatts from—and due to the co-operation of—The Niagara Mohawk Corporation, and a further 17,000 kilowatts from many customer-owned diesel and steam-electric standby plants. These steps gave protection to the consumer: for example, during the week ending December 25, 1949, two of our Quebec suppliers, due entirely to insufficient water, were forced to cut deliveries to the Commission by a total of 14,248,000 kilowatt-hours. Notwithstanding this cut in supply, your Commission temporarily lifted the restrictions on store-window lighting and supplied southern Ontario customers with 215,203,697 kilowatt-hours of primary power during the week as compared with 196,621,832 kilowatt-hours supplied during the corresponding week of 1948 and 182,527,079 kilowatt-hours during the corresponding week of 1947.

I have referred to one great accomplishment on the part of our engineers. What other activities mark 1949 as a year of superlatives? The year 1949 saw an all-time peak in construction activity, exceeding that of 1948 both in manpower and expenditures. During December there were over 442 separate jobs under construction ranging from small switching structures, high tension lines, large frequency-changer and transformer stations to the giant Des Joachims generating station. The engineering branch personnel numbered 14,646, of whom 11,969 were on the temporary staff. The capital construction budget on all systems totalled $142,000,000 for the fiscal year of which $141,749,372, or 99.8 per cent, was spent as follows:

On power developments	$72,530,000
On transformer stations	19,327,000
On transmission lines	22,890,000
On rural operating areas	21,580,000
On administration and service buildings and other projects	5,422,000

The year 1949 saw an all-time peak in the extension of the benefits of electrical power to rural Ontario. After deducting the number transferred to municipal systems, a net addition of 35,206 new rural consumers was added and 4,738 miles of new rural primary lines were constructed. On October 31, 1949, the end of the Commission's fiscal year, Ontario Hydro had a total of 255,295 rural consumers on 32,059 miles of line compared with 194,053 consumers on 23,765 miles of line on October 31, 1947; 156,560 consumers on 21,569 miles of line on October 31, 1945; and 122,358 consumers on 19,251 miles of line on October 31, 1940.

The year 1949 saw the beginning of one of the greatest and most important projects in Ontario Hydro's history—the standardization of frequency in the Southern Ontario system. This project will bring substantial benefits to all consumers of the Southern Ontario system, including reduced cost of equipment, availability of equipment, facilities for the interchange of power with other generating sources, smaller and less expensive motors, and the removal of flicker in lighting. An important phase of this program is timing—your Commission must be able to use the new power when available. The size of this program can be gauged by the following: it will take from ten to twelve years to complete; it is estimated it will cost your Ontario Commission some $170,000,000, the municipalities an additional $20,600,000.

Conversion must be made of 1,800,000 motors, 550,000 washing machines, 300,000 refrigerators, 400,000 electric clocks, 100,000 furnace blowers, 167,000 industrial motors, 175,000 commercial motors, or about 900 motors to be rewound or replaced each day. At December 1949 the Commission's Frequency Standardization staff numbered 535 and our contractor had 1,341 employees engaged on this work.

The year 1949 saw the peak in purchasing by Hydro, necessitated by its tremendous program. During the year the Commission purchased equipment and materials to the total of $100,000,000. Every section of Ontario and Canada received benefit through the Commission's policy of spreading the benefits of purchases as widely as possible.

The year 1949 also saw the commencement of inspection of our transmission lines by helicopter. Our large program calls for hundreds of additional miles of high voltage transmission lines; in fact our present 1,425 circuit miles of 230,000-volt lines are being increased to 2,940 miles. Also our present 4,000 circuit miles of 115,000-volt transmission lines are being increased to 4,600 miles. These increases will require additional inspection. After much study the Commission decided upon the helicopter as it had proved its value. Patrol by this method, plus one ground patrol per year, costs $3.00 per circuit mile, as compared with the less efficient ground patrol which costs $4.00 per mile.

The year 1949 saw the greatest number of cost municipalities, that is those which are supplied with power under cost contracts with the Commission and operate their own Hydro utilities, in number 309. There was during the year abundant evidence showing the important part played by the local commissions in the success of Hydro. It is recognized that each year a great many private citizens give generously of their time and talent to pilot the business affairs of Hydro in their municipalities. These citizens are preserving the benefits that can and do accrue from a generous measure of local autonomy combined with other advantages derived from the co-operating endeavours carried out on their behalf by the Provincial Commission. The results secured, representing the maximum good to all, are of untold benefit to the people of the Province.

The year 1949 also saw a greater interest than ever before by the people generally in the activities of the Commission. Thousands upon thousands of our people took advantage of our invitation to visit the various projects, in order that they might see at first hand what was actually taking place. For example, during the summer season of 1949, Des Joachims recorded approximately 10,000 visitors, while public interest was sustained in the older plants of the Commission, as was demonstrated by over 41,000 people visiting the Queenston generating station during 1949. As a further example of interest in our activities, there is the experience of the staff in our Research division. Some months ago our laboratory held Open House for one week and a tabulation indicated that there were some 1,334 visitors representing over 200 manufacturers, 4 universities, 4 collegiates, the Ontario Agricultural College and 38 different municipalities. In this connection the Commission is greatly indebted to the newspapers of the Province and to the radio for their generous support during the year.

Another matter of prime importance occurred during the latter part of 1949—the rate structure was substantially increased. The price at which the Commission has sold power in recent years has been characterized by a condition of relative stability or one of gradual reduction. This condition and trend is being changed by economic forces beyond the control of the Commission. The annual costs recorded an increase of 11.4 per cent during 1949, bringing about a general increase in rates. It must always be remembered that the Commission supplies power to the municipalities at cost. This cost must of necessity include all operating, maintenance, and interest charges, and reserves for depreciation, contingencies, and for a sinking fund for capital repayment. If costs increase, and they did, then additional revenues must be obtained to maintain the undertaking on a sound financial basis, to provide security and continuity of service, and to meet the growth in demands for power that are being placed on the facilities of the Commission.

Your Ontario Hydro approaches the future with confidence. The post-war construction and development program, costing some $593,000,000 and including nine hydro-electric projects, two steam-electric stations and one steam-electric source of purchased power, is well ahead of schedule. Since the war, five of these projects have been placed in service, increasing our available capacity by over 247,000 horsepower. The balance of the program, totalling some 1,400,000 horsepower, will be in service by 1952. In the near future, we look forward to the opening of the Des Joachims development. The original schedule gave January of 1951 for the first units to be in service at that development. Today we are able to say that the first two units will be in service by July 1, 1950 and the additional six units of 60,000 horsepower each, will be placed in service progressively between July 1950 and January 1951, making a total of 480,000 horsepower. The Chenaux development schedule has been altered and the first two units, totalling 40,000 horsepower, will be placed in service in December 1950 in place of January 1951. The remaining six units of 20,000 horsepower each will be in service by June 1951, a total from Chenaux of 160,000 horsepower. These two developments will, it is believed, amply take care of the demand in the Southern Ontario system pending the completion of the construction program.

Another important project which was started in 1949 will mean much to the northeastern section of the Province. Ontario today is divided into four sections as far as power is concerned—Southern, Northeastern, Patricia and Thunder Bay; there is no physical connection of power supply networks between any two sections. It was decided in 1949, in order to give additional protection to northeastern Ontario, to construct a tie-line from Des Joachims to North Bay. This tie-line, which will be completed in October 1950, will make available to northern Ontario the full protection of the new generating stations being constructed in the southern section. This tie-line in addition to the Tunnel development, with its 56,500 horsepower coming into service in June of this year, will certainly give ample protection to the people of northeastern Ontario. The Thunder Bay system and Patricia district will, we believe, be connected early in 1951, and this will be of great mutual assistance to these two districts. It is also to be noted that the Thunder Bay system will be given added protection with the opening of the Pine Portage development (80,000 horsepower) in June 1950.

Your Commission is of the opinion that in the not too distant future a tie-line will be constructed joining Thunder Bay and the Northeastern region. Thus the whole of Ontario will be joined in one huge network for the mutual protection of all districts. At present, due to the co-operation of the Honourable Leslie M. Frost, Prime Minister of Ontario, and the Honourable D. L. Campbell, Prime Minister of Manitoba, a committee is studying the question of the most efficient use of the waters of the Winnipeg and the English rivers for the benefit of both provinces. In addition, the Commission has been studying for some years an interconnection between Ontario and the State of Michigan. These steps, together with the fact that the Ontario, Quebec and New York State power systems are already joined, will provide a vast network of power lines—Quebec, Ontario, Manitoba and the States of Michigan and New York—for the mutual protection of all.

Looking into the future, the Commission feels that the present development program will make provision for the power needs of the Province until 1953 or early 1954. Having faith in Ontario's future, your Ontario Hydro believes that the demand will continue to grow, and this belief has spurred us on to look for new power projects. The proposed projects on the Niagara and St. Lawrence rivers, together constitute the answer for many years to come. Your Commission is greatly indebted to the Right Honourable Louis S. St. Laurent, Prime Minister of Canada, and to the Honourable Leslie M. Frost, Prime Minister of Ontario for their generous support in connection with the Niagara River diversions, and it is with confidence that we look for early ratification of the Treaty relating to this river.

It is the intention of your Commission to press for the development of power on the St. Lawrence river in the belief that the proposed developments on the Niagara and the St. Lawrence rivers are indispensable to Ontario's future expansion in every field.

Let me say again, as I said in my Letter of Transmittal of March 31, 1949, that I have received the utmost co-operation from the 1st Vice-Chairman of the Commission, the Hon. George H. Challies and from the 2nd Vice-Chairman, Mr. W. Ross Strike, to whom I express sincere appreciation. We as a Commission are indebted to the members and staffs of the municipal commissions throughout the Province for their generous co-operation which assisted materially in accomplishing the work referred to in the Report

Respectfully submitted,

ROBERT H. SAUNDERS,
Chairman

LETTER OF SUBMITTAL BY THE GENERAL MANAGER AND CHIEF ENGINEER

TORONTO, ONTARIO, MARCH 30, 1950

ROBERT H. SAUNDERS, ESQ., C.B.E., K.C., *Chairman*

and COMMISSIONERS

SIRS:

The undersigned respectfully submits the Forty-second Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1949.

The Report relates to the Commission's activities on behalf of the co-operative systems, both in the municipal and rural supply fields and to its trusteeship of the Northern Ontario Properties for the Province. There are also presented for the calendar year 1949 financial statements and statistical data of the municipal electrical utilities operating in conjunction with the co-operative systems.

Attached to this Letter of Submittal are certain summary tabulations and statements of the supply of and demand for power, the progress of Hydro's construction program, and capital investment, reserves and revenue, relating both to the Commission and to the associated municipal electrical utilities.

The year 1949 was a most difficult one due to the large increase in capital construction and the power shortage arising from abnormal load growth and subnormal water supplies in the Quebec and northern areas.

The staff measured up to these difficulties admirably, and it is my wish to acknowledge the splendid job the whole staff did and the efficient and loyal service they rendered during the past year.

Respectfully submitted,

R. L. HEARN,
General Manager
and Chief Engineer

SUMMARY TABULATIONS AND STATEMENTS

Total Power Generated and Purchased — All Systems

For Fiscal Years ended October 31, 1948 and 1949

	1948 Kilowatts	1949 Kilowatts	Increase or Decrease Kilowatts
Maximum normal plant capacity	1,436,870	1,495,200	+58,330
Power purchased—contract amount	712,206	734,706	+22,500
Total available capacity-generated and purchased	2,149,076	2,229,906	+80,830
	Kilowatt-hours	Kilowatt-hours	Kilowatt-hours
Total energy generated	8,879,893,929	9,450,076,659	+570,182,730
Total energy purchased	4,674,194,601	4,582,873,331	—*91,321,270
Total energy generated and purchased	13,554,088,530	14,032,949,990	+478,861,460

*Reduction in 1949 due, in part, to water shortage.

Supply and Demand of Power by Systems

TOTAL POWER ACTUALLY SUPPLIED—(Primary and Secondary)

20-MINUTE PEAK KILOWATT —SYSTEM COINCIDENT PEAKS

System	1948	1949
	October	
Southern Ontario System	1,542,975	1,743,973
Thunder Bay System	132,210	171,380
Northern Ontario Properties	212,132	234,878
	December	
Southern Ontario System	1,687,992	1,806,850
Thunder Bay System	154,545	174,878
Northern Ontario Properties	214,634	221,712

TOTAL POWER DEMAND

ACTUAL PRIMARY LOAD PLUS ESTIMATED INDUSTRIAL LOAD CUTS—KILOWATTS

System	1948	1949
	October	
Southern Ontario System	1,700,640	1,903,573
Thunder Bay System	126,110	165,780
Northern Ontario Properties	208,952	231,513
	December	
Southern Ontario System	1,827,642	1,987,035
Thunder Bay System	132,945	166 978
Northern Ontario Properties	207,629	218,217

Summary of Hydro's Post-War Development Program — 1945 to 1952

CONSTRUCTION OF GENERATING PLANTS

As at October 31, 1949

System and development	*In service*	*Kilowatts*	*Approximate Horsepower*
In Operation			
SOUTHERN ONTARIO SYSTEM			
DeCew Falls (Extension)—Niagara district	September 1947	57,000	76,400
Stewartville—Madawaska river	September 1948	63,000	84,500
Additional power purchase contract—Polymer Corporation	November 1948	22,500	30,200
THUNDER BAY SYSTEM			
Aguasabon—Aguasabon river	October 1948	40,000	53,600
NORTHERN ONTARIO PROPERTIES			
Ear Falls (Extension)—English river	June 1948	6,000	8,000
Total in service		188,500	252,700
Authorized and Under Construction	*Estimated in service*		
SOUTHERN ONTARIO SYSTEM			
Des Joachims—Ottawa river	6 units in 1950, 2 units in 1951	358,000	480,000
Chenaux—Ottawa river	2 units in 1950, 6 units in 1951	120,000	160,000
La Cave—Ottawa river	1952	144,000*	192,000
J. Clark Keith (Steam)—Windsor	Fall 1951	120,000	160,000
Richard L. Hearn (Steam)—Toronto	Fall 1951	200,000	268,000
Emergency steam and diesel-electric units	November 1949 to April 1950	63,000	84,000
THUNDER BAY SYSTEM			
Pine Portage—Nipigon river	July 1950	60,000†	80,000
NORTHERN ONTARIO PROPERTIES			
Tunnel—Mississagi river	July 1950	42,000	56,000
Total under construction		1,107,000	1,480,000
Total in service and under construction		1,295,500	1,732,700

*Ultimate capacity planned. . . 192,000 kilowatts, 257,000 horsepower.
†Ultimate capacity planned. . . 120,000 kilowatts, 160,000 horsepower.

FINANCIAL SUMMARY—TO OCTOBER 31, 1949

For power generation:		
Expenditures on projects in service	$ 54,393,678	
Expenditures on projects under construction	113,938,752	
Unexpended portion of approvals	142,643,120	
		$310,975,550
For transmission lines:		
Expenditures on lines in service	30,188,271	
Expenditures on lines under construction	22,602,209	
Unexpended portion of approvals	42,736,640	
		95,527,120
For transformation, frequency-changer station facilities and service buildings:		
Expenditures on facilities in service	36,898,041	
Expenditures on facilities under construction	16,153,405	
Unexpended portion of approvals	41,557,738	
		94,609,184
For rural construction:		
Expenditures on lines and facilities in service	40,863,178	
Expenditures on lines and facilities under construction	7,245,164	
Unexpended portion of approvals	8,677,887	
		56,786,229
Other approved expenditures		35,476,141
		$593,374,224

Capital Investment and Reserves

Capital Investment

The total capital investment of The Hydro-Electric Power Commission of Ontario in power undertakings, exclusive of government grants in respect of construction of rural power districts' lines ($44,085,329.40) is $695,523,039.35, and the investment of the municipalities in distributing systems and other assets is $174,432,338.05, making in power undertakings a total investment of $869,955,377.40.

The following statement shows the capital invested in the respective systems, properties and municipal undertakings etc:

Southern Ontario system	$	487,914,092.33
Thunder Bay system		61,279,128.23
Office and service buildings		10,885,959.91
Construction plant and inventories		45,426,129.93
Total capital investments in co-operative systems	$	605,505,310.40
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province Of Ontario		88,594,476.67
Northern Ontario Properties—Construction plant and inventories		1,423,252.28
Total Commission capital investments	$	695,523,039.35
Municipalities' distribution systems		136,745,778.92
Other assets of municipal Hydro utilities		37,686,559.13
Total	$	869,955,377.40

Reserves of Commission and Municipal Electrical Utilities

The total reserves of the Commission and the municipal electrical utilities for depreciation, contingencies, frequency standardization, stabilization of rates, sinking fund and insurance purposes, amount to $533,135,810.02, made up as follows:

Southern Ontario system	$	295,680.319.91
Thunder Bay system		20,210,753.85
Office and service buildings and equipment		2,315,873.67
Total reserves in respect of co-operative systems' properties	$	318,206,947.43
Northern Ontario Properties		32,116,243.73
Fire insurance reserve		306,482.43
Miscellaneous reserves		1,418,583.88
Employers liability insurance, and staff pension reserves		20,795,132.62
Total reserves of the Commission	$	372,843,390.09
Total reserves and surplus of municipal electric utilities		160,292,419.93
Total Commission and municipal reserves	$	533,135,810.02

Revenue of Commission

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Southern Ontario and Thunder Bay systems, aggregated $62,007,799.73. The revenue of the Commission from customers served by the Northern Ontario Properties, which are held and operated in trust for the Province, was $7,661,128.59, making a total (excluding $299,346.17 of Northern Ontario Properties revenue transferred to Thunder Bay system in respect of power supplied) of $69,369,582.15.

Summarized operating results of these co-operative systems and rural power districts and of the Northern Ontario Properties, as of October 31, 1949, follow:

Summarized Operating Results

SOUTHERN ONTARIO SYSTEM—THUNDER BAY SYSTEM

INCLUDING RURAL POWER DISTRICTS

Revenue: amount received from or billed against municipalities and other customers		$ 51,047,252.96	
Revenue from customers in rural power districts (retail)		10,960,546.77	
Total revenue, systems and rural			$ 62,007,799.73
Operation, maintenance, administration, interest and other current expenses		$ 46,608,354.17	
Provision for reserves—			
Renewals	$ 4,011,911.70		
Contingencies and obsolescence	1,651,263.23		
Frequency standardization	6,393,158.21		
Stabilization of rates	35,147.30		
Sinking fund	4,238,363.08		
		16,329,843.52	
		62,938,197.69	
Less: Appropriated from rural power districts suspense account		1,729,674.26	
			$ 61,208,523.43
Net balance credited to municipalities			$ 799,276.30

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
In trust for the Province of Ontario

Revenue: amount received from or billed against municipalities and other customers			$ 7,661,128.59
Operation, maintenance, administration, interest and other current expenses		$ 6,103,951.32	
Provision for reserves—			
Renewals	$ 698,435.97		
Sinking fund	635,981.19		
Contingencies	388,263.14		
		1,722,680.30	
			7,826,631.62
Loss			$ 165,503.03

Comparative Financial Statements 1948-1949

Co-operative Systems of the Commission

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario divisions

	1948	1949
OPERATING EXPENSES AND FIXED CHARGES	$ c.	$ c.
Power purchased	12,561,818.99	13,220,956.29
Operation, maintenance and administration	12,189,743.27	15,497,704.67
Interest	13,479,519.81	15,203,099.20
Provision for renewals	3,104,610.66	3,695,533.03
Provision for contingencies and obsolescence	1,002,502.11	1,333,421.29
Provision for Frequency standardization	7,447,030.47	6,393,158.21
Sinking fund	3,412,778.71	3,839,465.09
TOTAL COST OF POWER	53,198,004.02	59,183,337.78
Less: Appropriated from rural power districts suspense account		1,670,062.55
		57,513,275.23
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	55,874,052.59	58,284,450.54
Net balance credited to municipalities under cost contracts	2,676,048.57	771,175.31

THUNDER BAY SYSTEM

	1948	1949
OPERATING EXPENSES AND FIXED CHARGES	$ c.	$ c.
Power purchased	76,521.87	1,407.21
Operation, maintenance and administration	693,232.66	1,095,689.81
Interest	872,246.43	1,589,496.99
Provision for renewals	184,919.33	316,378.67
Provision for contingencies and obsolescence	616,377.52	317,841.94
Provision for stabilization of rates	110,480.23	35,147.30
Sinking fund	220,111.86	398,897.99
TOTAL COST OF POWER	2,773,889.90	3,754,859.91
Less: Appropriated from rural power districts suspense account		59,611.71
		3,695,248.20
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	2,838,219.97	3,723,349.19
Net balance credited to municipalities under cost contracts	64,330.07	28,100.99

Municipal Electric Utilities

The following summarizes the year's operation of the local electric utilities conducted by municipalities owning their own distribution systems and operating with energy supplied by or through The Hydro-Electric Power Commission. These include not only electric utilities of the cost contract municipalities of the Southern Ontario and Thunder Bay systems, but also those of certain municipalities served through the Northern Ontario Properties.

The total revenue collected by the municipal electric utilities in 1949 was $56,903,200.73, as compared with $53,494,708.19 for 1948, an increase of $3,408,492.54 or 6.4 per cent.

The items of expenditure of the municipal electric utilities included $36,225,068.75 for power supplied by the Commission, $12,068,001.17 for operation, maintenance and administration and $305,084.60 for interest, $842,182.95 for sinking fund and principal payments on debentures, and $4,266,173.78 for depreciation and other reserves. Total expenses and reserve appropriations were $53,706,511.25, an increase of $4,485,675.19, or 9.1 per cent over 1948. The total net surplus for the year's operations was $3,196,689.48.

Co-operative Systems

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

It is interesting to note that the average cost per horsepower to the municipalities of the Southern Ontario and Thunder Bay systems during 1949 was $22.52, as compared with $21.33 for the previous year, an increase of $1.19 per horsepower. Notwithstanding this increase in cost per horsepower there was no change of importance in the rates to consumers in the municipalities of either system.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario system utilities amount to $130,563,197.49. The total assets aggregate $261,213,275.39. The reserves and surplus accumulated in connection with the local utilities amount to $153,491,759.69, an increase of $6,391,837.94 during the year 1949. The percentage of net debt to total assets is 6.8, an increase of 1.2 per cent, which has been chiefly due to the post-war rehabilitation program.

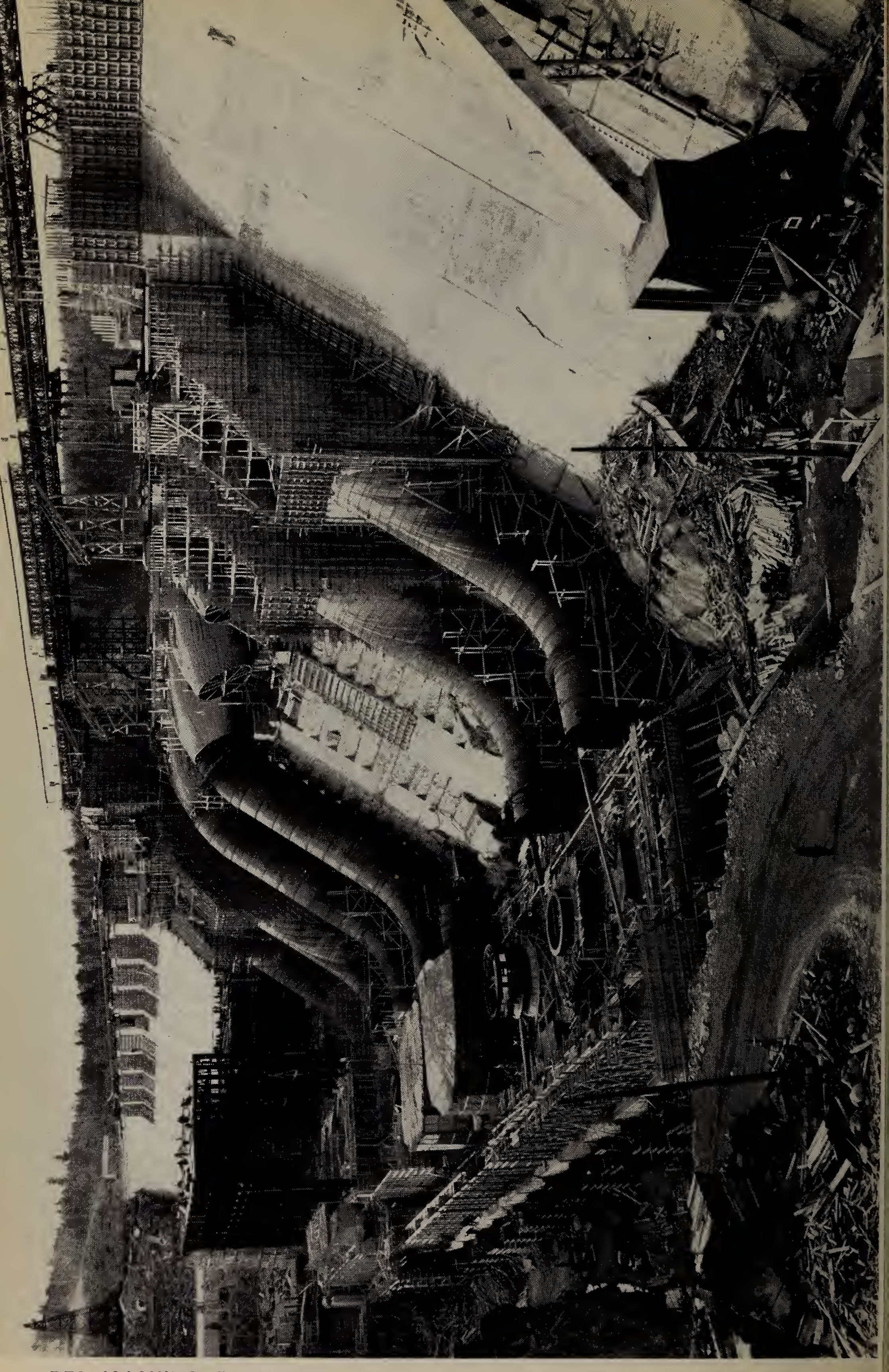
The total revenue of the municipal electric utilities served by this system was $54,208,165.19, an increase of $3,046,697.73 or 6 per cent, as compared with the previous year.

After meeting all expenses in respect of operation, including interest, depreciation and other reserves and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Southern Ontario system amounted to $3,040,998.17 as compared with a net surplus of $4,116,424.15 for the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to $3,867,502.37. The total assets aggregate $10,703,018.73. The reserves and surplus accumulated in connection with the local utilities amount to $4,534,782.35, an increase of $141,313.60 during the year 1949. The percentage of net debt to total assets is 9.2, an increase of 0.5 per cent.

The total revenue of the municipal electric utilities served by this system was $1,568,700.75, an increase of $202,439.74, or 14.8 per cent, as compared with the previous year. After meeting all expenses in respect of operation, including interest, depreciation and other reserves and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to $96,452.11 as compared with a net surplus of $111,305.17 for the previous year.

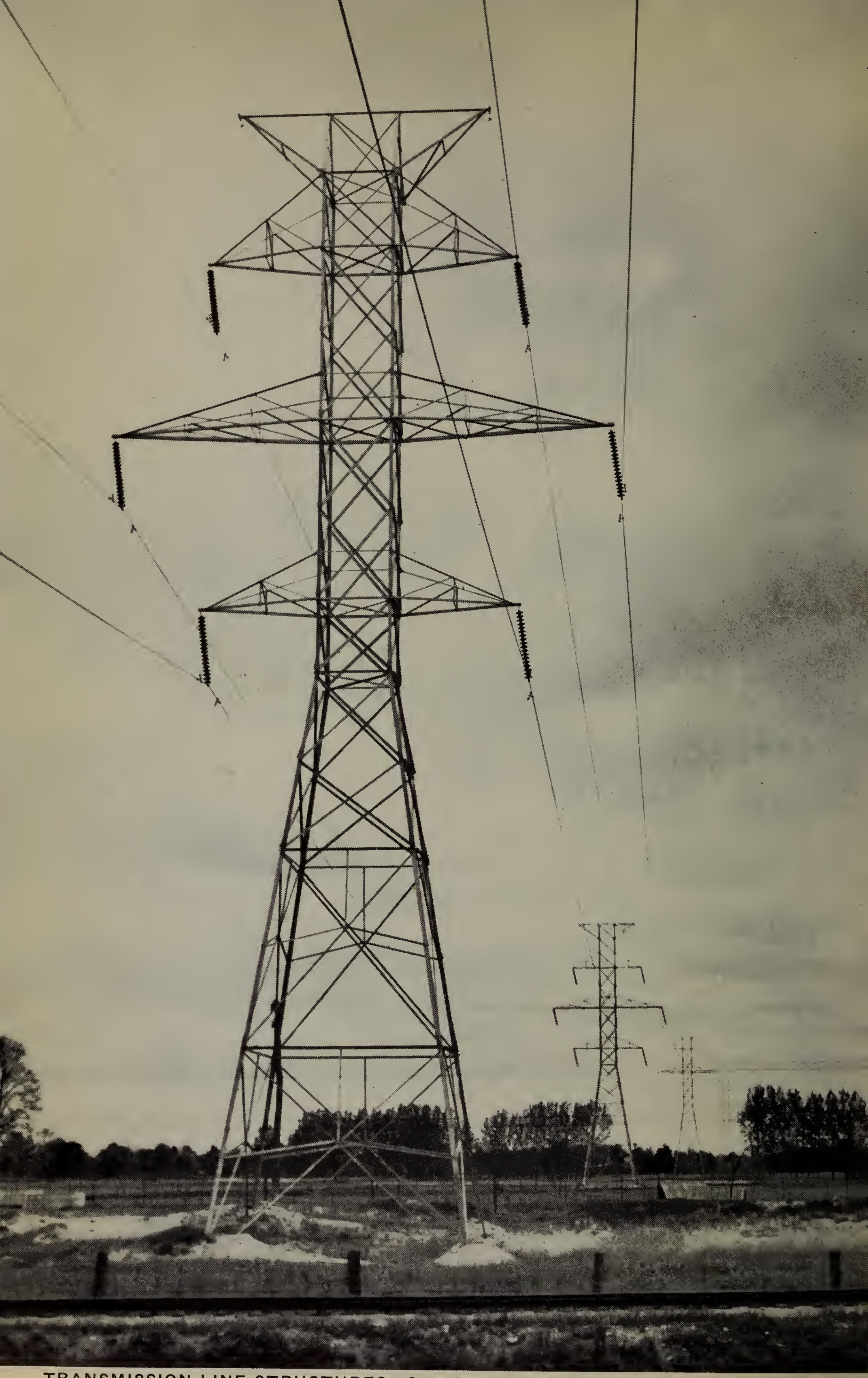


DES JOACHIMS—Development in advanced stage of construction, November 1949

CHENAUX—Progress towards end of 1949

LA CAVE—Aggregate conveyor in foreground, access bridge, diversion channel, and camp on Quebec side in background

PINE PORTAGE—By day and by night the work proceeded on the main dam and powerhouse. Showing progress at the end of 1949



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FORTY-SECOND ANNUAL REPORT

OF

The Hydro-Electric Power Commission of Ontario

FOREWORD

and

Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to conserve the water powers of Ontario as a valuable asset of the people and to provide a more satisfactory supply of low-cost power in southern Ontario. In 1907 the Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906, and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62, and subsequent amending Acts—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than thirty-nine years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been firmly established.

At the end of 1949 the Commission was serving 1,017 municipalities in Ontario. This number included 27 cities, 122 towns and mining townsites, 316 villages and police villages and 552 townships and improvement districts. With the exception of 15 suburban sections of townships known as "voted areas," the townships and 138 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service with the same consumption of electricity pays the same amount on his quarterly bill.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except for service in rural power districts. In this case the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

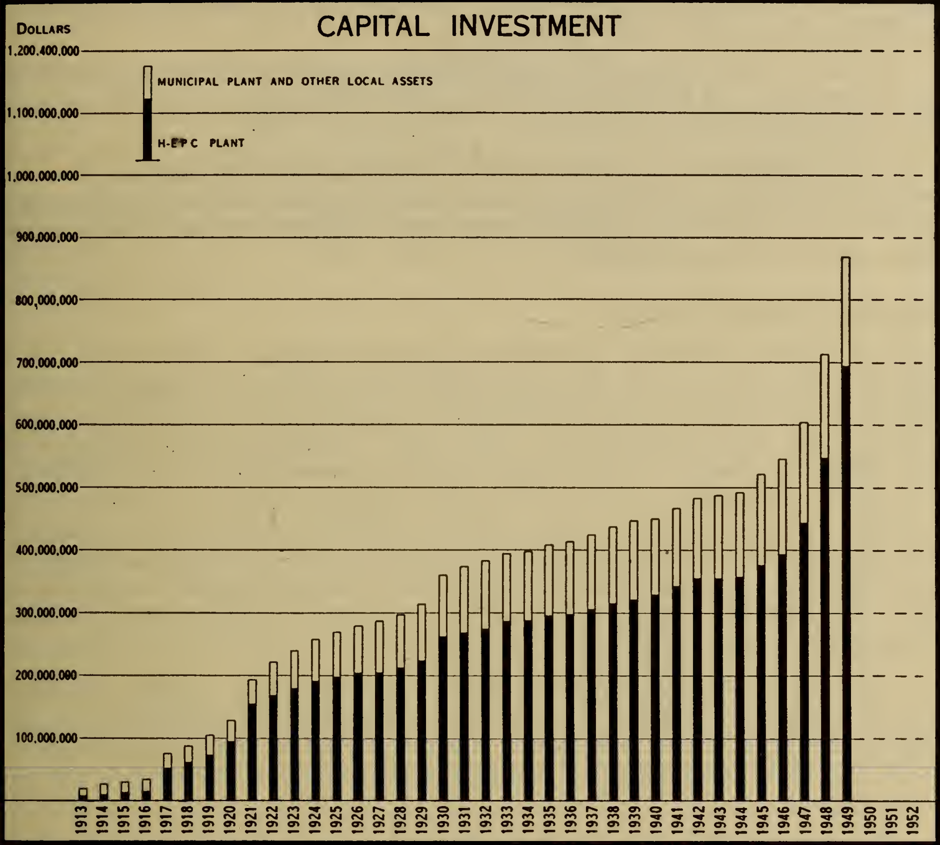
The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements of these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the two main systems and miscellaneous co-operative activities a balance sheet of assets and liabilities, a statement of operations, a tabulation of fixed assets, and summarized combined statements of various reserves.

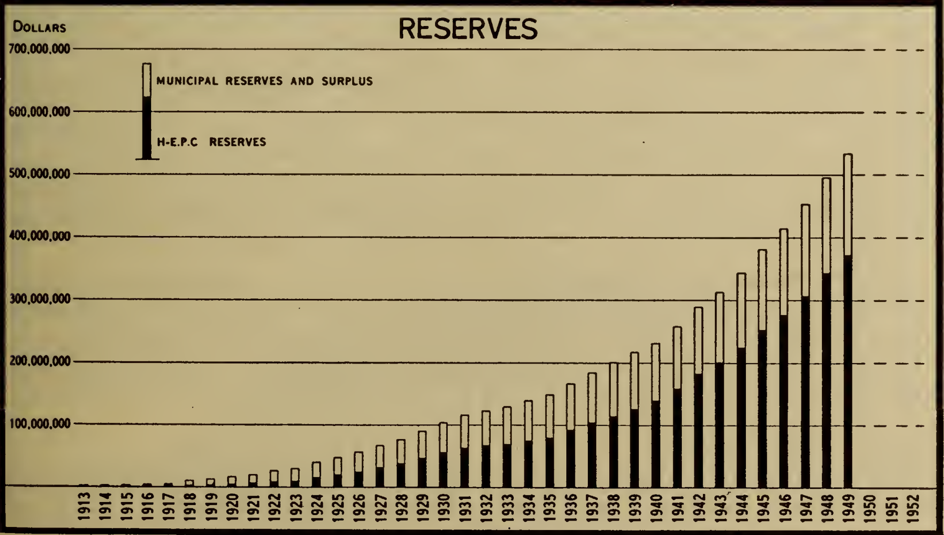
The *Second* phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. For the consolidated rural power districts The Hydro-Electric Power Commission not only provides the power wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the retail distribution of energy to the consumers within the rural operating areas. Summarized financial statements relating to rural electrical service are presented in Section IX of the Report, and a general report on this service is given in Section IV.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FORTY YEARS RECORD — ALL SYSTEMS


CAPITAL INVESTMENT


RESERVES

data of the individual urban electrical utilities are presented in Section X of the Report.

For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet, an operating account, and statements of reserves and capital expenditures.

Further details respecting administration and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 99 and 161.

The Commission supplies power through three systems, the two co-operative systems of Southern Ontario and Thunder Bay and the system known as the Northern Ontario Properties, comprising the Northeastern region and the Patricia district.

Co-operative Systems Operating

From time to time in accordance with provisions of *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In time these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. Early in 1944 the three systems then serving southern Ontario, the Niagara, Georgian Bay and Eastern Ontario systems, were amalgamated to form the *Southern Ontario system* and financially the amalgamation was made retroactive to apply to the fiscal year 1942-43. The three former systems became divisions of the Southern Ontario system.

In 1947 the administration of the Commission was reorganized and a measure of decentralization was set up by dividing the Province into nine regions. Seven of these administer the properties of the *Southern Ontario system* and their administrative boundaries are shown on the map at the end of the Report.

The frequency in the Southern Ontario system is being standardized at 60 cycles, but at the moment the municipalities within the Western, West Central, Niagara and Toronto regions are mostly served with 25-cycle power supplied from plants on the Niagara river, supplemented with power transmitted from generating stations on the Ottawa river, and power purchased from Quebec companies. The municipalities of the Georgian Bay, East Central and Eastern regions are supplied with 60-cycle power from local water-power developments, from power purchased from other sources, and from interconnection with the rest of the Southern Ontario system.

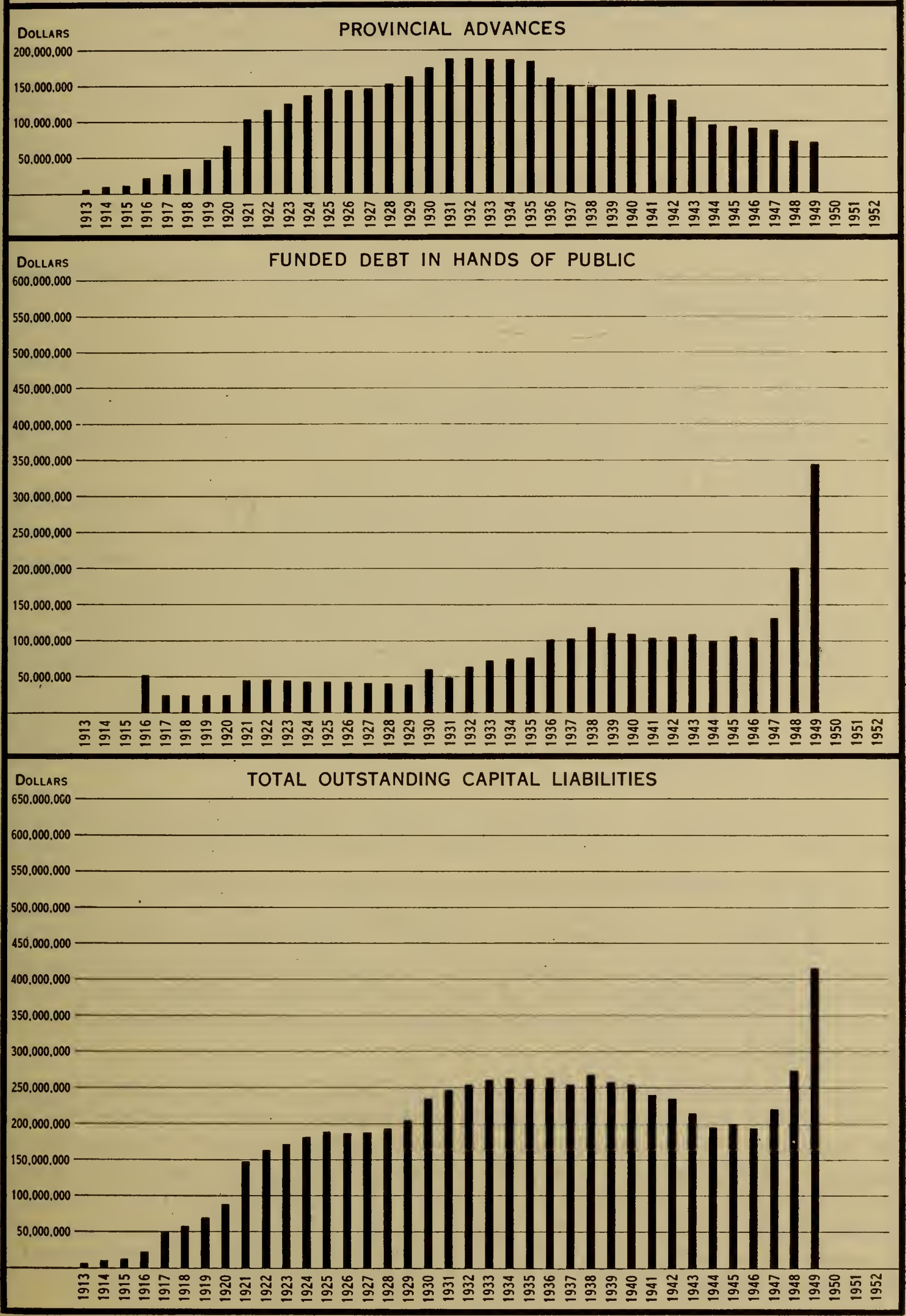
The *Thunder Bay system* forms part of the area administered by the Northwestern region and comprises the cities of Port Arthur and Fort William, certain smaller municipalities, rural operating areas and the mining district of Longlac. Developments on the Nipigon, Aguasabon and Kaministikwia rivers supply 60-cycle power.

Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

PROVINCIAL ADVANCES AND FUNDED DEBT



PROVINCIAL ADVANCES

FUNDED DEBT IN HANDS OF PUBLIC

TOTAL OUTSTANDING CAPITAL LIABILITIES

the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit.

The Northern Ontario Properties comprise the Abitibi, Timiskaming, Sudbury and Nipissing districts administered by the Northeastern region and the Patricia and Rainy River districts administered by the Northwestern region. The Rainy River district derives its power from the Thunder Bay system; the other districts in the Northern Ontario Properties are supplied from local water-power developments. All power supplies are at 60 cycles, except from Abitibi Canyon development and three plants in Timiskaming district.

The geographical boundaries of the Northwestern and Northeastern regions are shown on a map of the Northern Ontario Properties at the end of the Report.

The power supplies for the systems and northern Ontario districts are listed in the first table of Section I on pages 12 to 15.

The Annual Report

The table of contents, pages xxv and xxvi, lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section I, pages 11 to 35, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the urban municipal utilities during the past two years, the frequency of supply to each, and the date of first delivery of power.

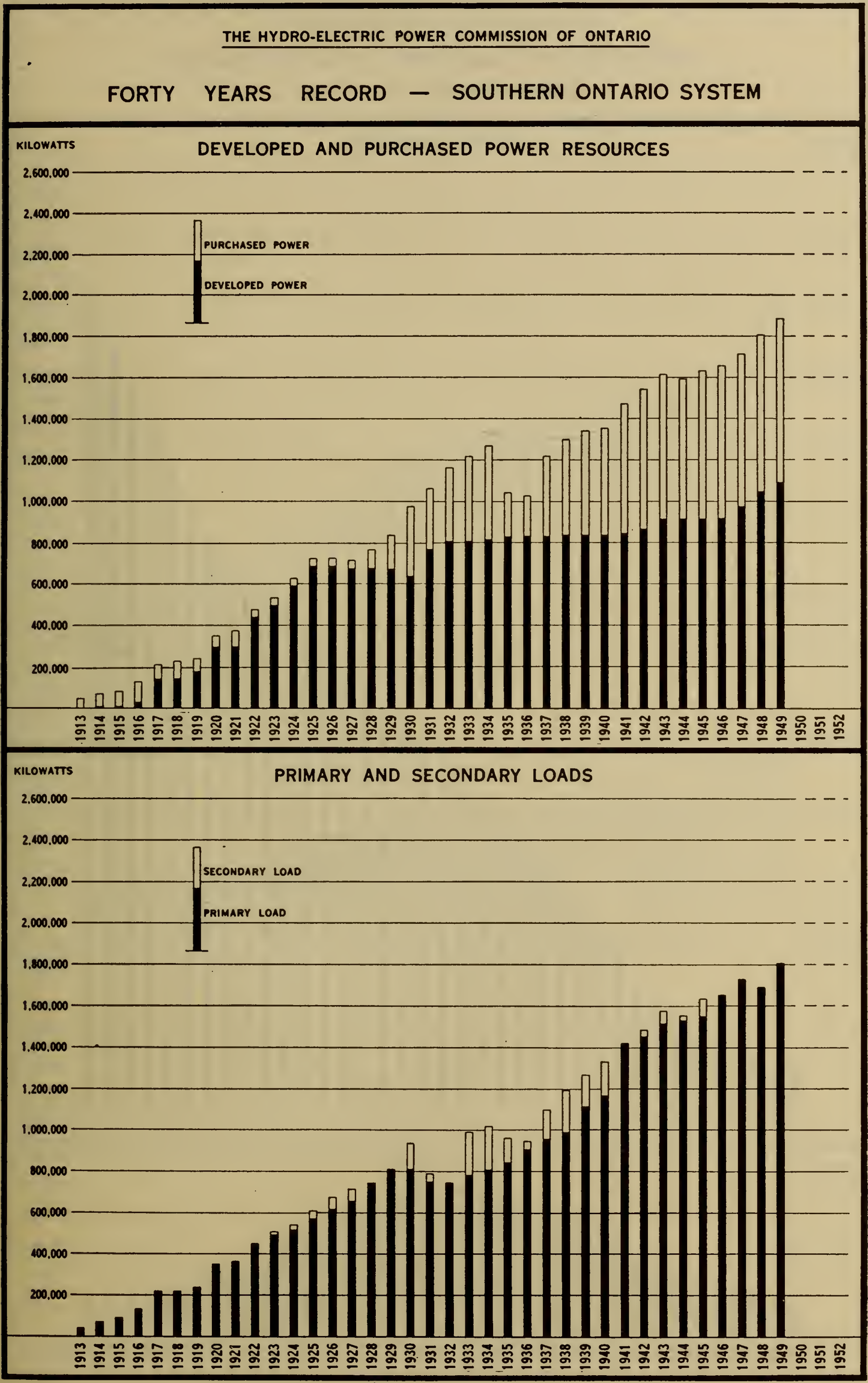
The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section IV on pages 51 to 64.

In Section VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About one-half of the Report is devoted to financial and other statistical data which are presented in two sections, IX and X already referred to above.

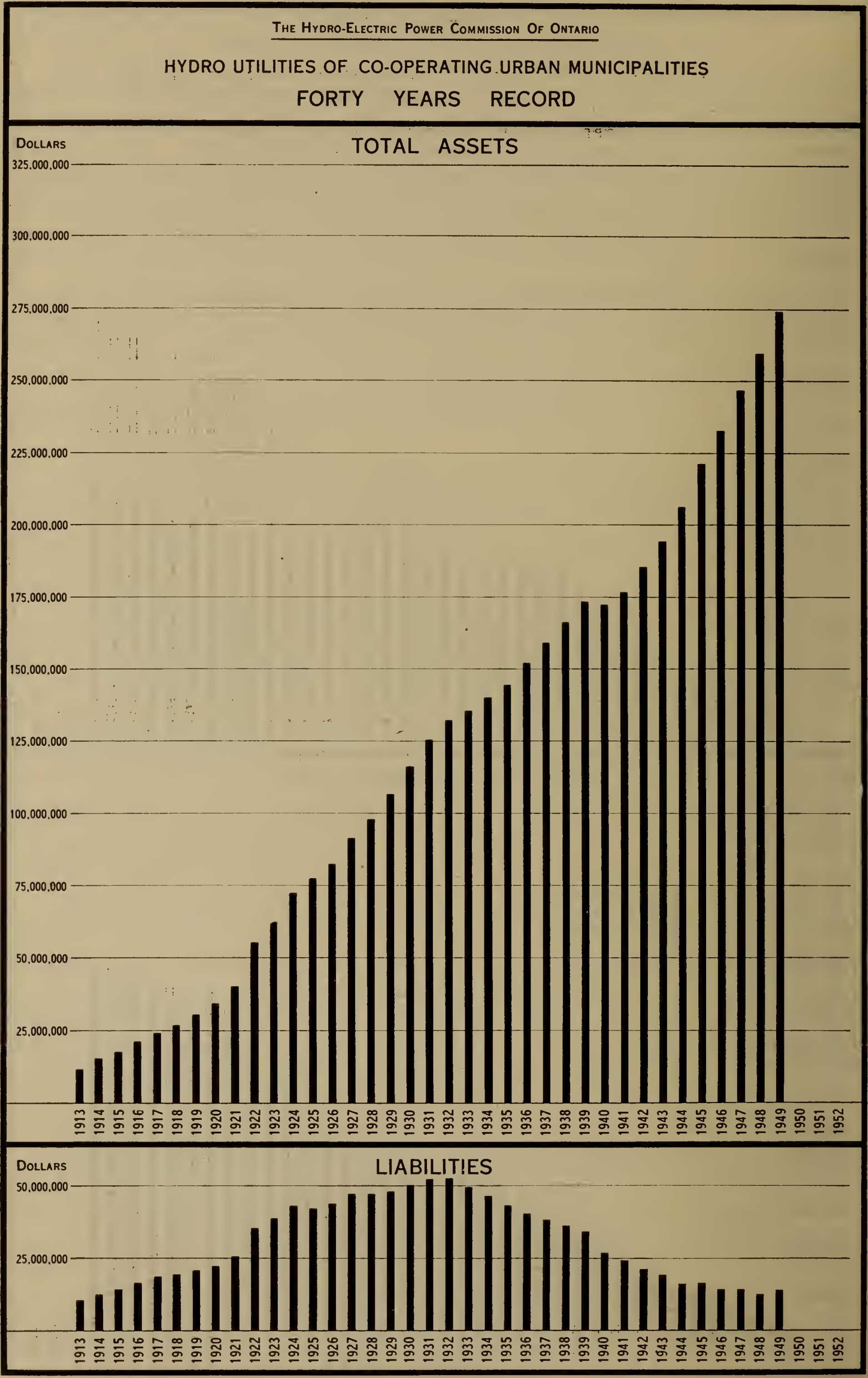
Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in Statement "C" starting on page 286; for the rural power districts they are given in Appendix II on page 337. Certain statistical data resulting from the application of the rates in urban utilities are given in Statement "D". This statement is prefaced by a special introduction starting on page 306.

In its Annual Reports the Commission aims to present a comprehensive record of the activities of the whole undertaking under its administration, and explanatory statements are therefore suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases the enquiries can satisfactorily be answered by supplying or directing attention to information presented in the Annual Report.



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FORTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

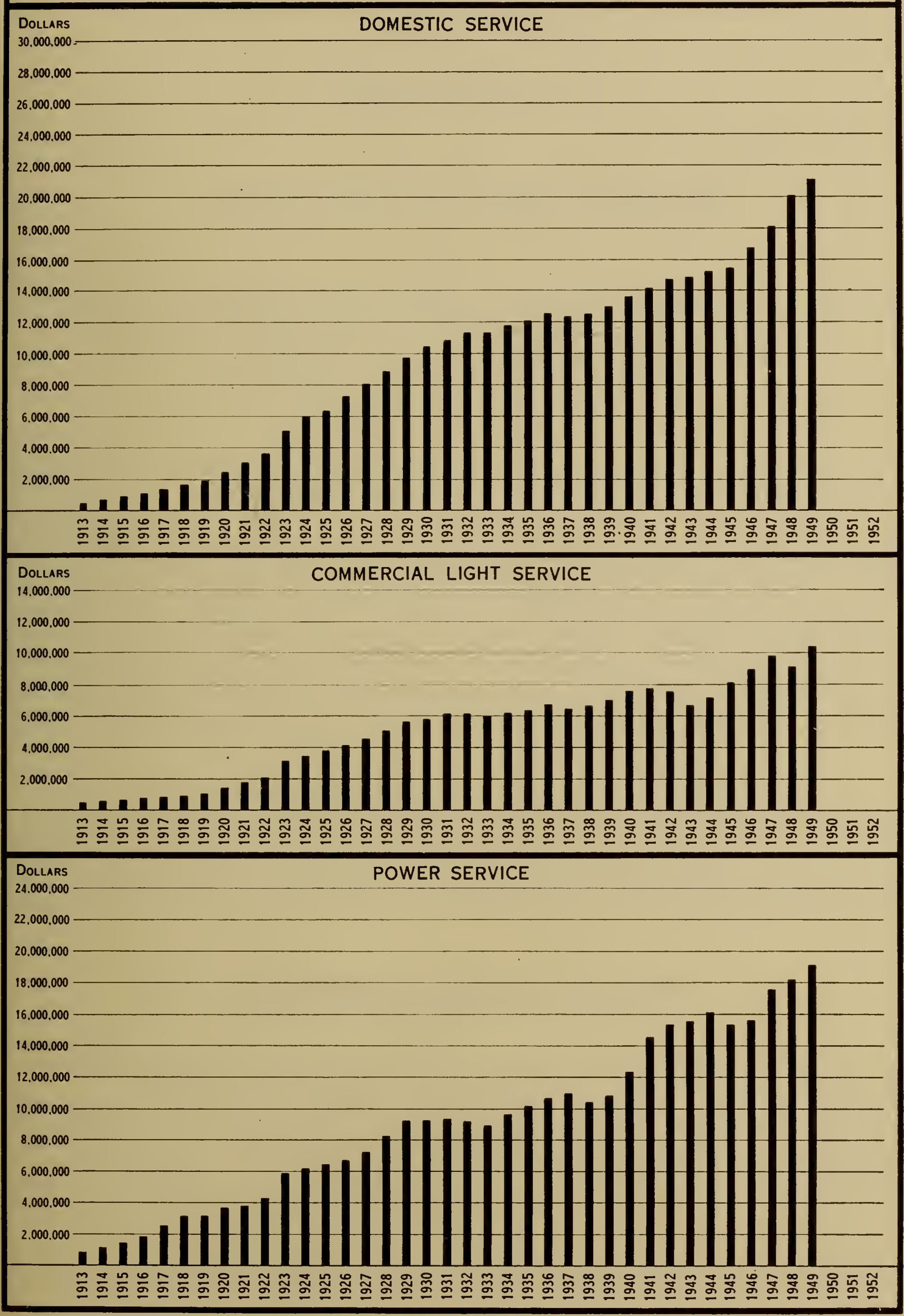
HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES

FORTY YEARS RECORD

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES

FORTY YEARS REVENUES



SECTION I

OPERATION OF THE SYSTEMS

Output Exceeds Previous Record—Municipal and Rural Loads Increase—Loads of Heavy Industries Recede—Deficient Precipitation Reduces Power Supply—Restrictions Again Necessary

IN THE provision of electric power for the domestic, commercial, rural, municipal and industrial needs of the Province, The Hydro-Electric Power Commission of Ontario operated 58 hydro-electric generating stations, which have a maximum normal operating capacity of 1,495,200 kilowatts and produced 9,450,076,659 kilowatt-hours in the fiscal year ended October 31, 1949. In addition the Commission had contracts for the purchase of power totalling 734,706 kilowatts, from which it received 4,582,873,331 kilowatt-hours. Thus the Commission generated and purchased 14,032,949,990 kilowatt-hours, an increase of 3.5 per cent over that produced in the previous year. Although this was an all-time high in production, it was nevertheless insufficient to meet the unprecedented demands for power.

The Commission supplies power through three systems; the two co-operative systems of Southern Ontario and Thunder Bay, and the system known as the Northern Ontario Properties operated in trust for the Province of Ontario. As the physical and operating conditions differ greatly in the three systems, they will be dealt with separately in this section of the Report.

SOUTHERN ONTARIO SYSTEM

Load Trends

The maximum peak load on the Southern Ontario system during the fiscal year, November 1, 1948 to October 31, 1949, was 1,743,973 kilowatts, exceeding the corresponding peak of the previous year by 15,997 kilowatts, or 0.9 per cent. The energy output from both generated and purchased sources totalled 11,380,290,565 kilowatt-hours, showing an increase over the output in the previous year of 1.5 per cent.

On most working days throughout the year primary peak demands exceeded resources, and restrictions in a modified form were necessary to

TOTAL POWER GENERATED

POWER GENERATED IN

Generating stations	Maximum normal plant capacity	
	October 31, 1949	
	kilowatts	horsepower
SOUTHERN ONTARIO SYSTEM		
On Niagara and Ottawa Rivers		
Queenston-Chippawa—Niagara river	†375,000	502,681
"Ontario Power"—Niagara river	†135,000	180,965
"Toronto Power"—Niagara river	†108,000	144,772
Chats Falls (Ontario half)—Ottawa river	† 85,000	113,941
DeCew Falls (25-cycle)—Welland canal	†116,000	155,496
DeCew Falls (66⅔-cycle)—Welland canal	37,000	49,598
Diesel-electric installation (66⅔ cycle)	2,000	2,681
In Eastern Ontario		
Stewartville—Madawaska river	63,000	84,450
Calabogie—Madawaska river	4,500	6,032
Barrett Chute—Madawaska river	42,000	56,300
Galetta—Mississippi river	800	1,072
Carleton Place—Mississippi river	200	268
High Falls—Mississippi river	2,500	3,351
Sidney—Dam No. 2—Trent river	3,400	4,558
Frankford—Dam No. 5—Trent river	2,600	3,485
Sills Island—Dam No. 6—Trent river	1,600	2,145
Meyersburg—Dam No. 8—Trent river	5,200	6,971
Hague's Reach—Dam No. 9—Trent river	3,400	4,558
Ranney Falls—Dam No. 10—Trent river	8,600	11,528
Seymour—Dam No. 11—Trent river	3,100	4,155
Heely Falls—Dam No. 14—Trent river	11,400	15,282
Auburn—Dam No. 18—Otonabee river	1,800	2,413
Lakefield—Otonabee river	1,700	2,279
Fenelon Falls—Dam No. 30—Sturgeon river	700	938
In Georgian Bay Area		
Big Eddy—Muskoka river	7,100	9,517
Ragged Rapids—Muskoka river	7,500	10,054
Bala No. 1 and No. 2—Muskoka river	400	536
South Falls—South Muskoka river	4,200	5,630
Hanna Chute—South Muskoka river	1,200	1,609
Trethewey Falls—South Muskoka river	1,700	2,279
Big Chute—Severn river	4,300	5,764
Wasdells Falls—Severn river	900	1,206
Eugenia Falls—Beaver river	5,600	7,507
Walkerton—Saugeen river	400	536
Hanover—Saugeen river	300	402
THUNDER BAY SYSTEM		
Cameron Falls—Nipigon river	55,000	73,727
Alexander—Nipigon river	53,000	71,046
Aguasabon—Aguasabon river	40,000	53,619
Kakabeka—Kaministiquia river	27,700	37,131

Caution:

The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable operating conditions that can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

AND PURCHASED—ALL SYSTEMS

COMMISSION STATIONS

Peak load during fiscal year ended				Total energy output during fiscal year ended	
October 31, 1948		October 31, 1949		Oct. 31, 1948	Oct. 31, 1949
kilowatts	horsepower	kilowatts	horsepower	kilowatt-hours	kilowatt-hours
367,500	492,627	370,000	495,979	2,758,464,000	2,678,592,000
137,000	183,646	138,000	184,987	1,146,137,300	1,164,858,300
107,000	143,432	108,000	144,772	900,855,100	888,159,800
88,000	117,962	86,000	115,281	391,357,050	418,496,650
127,200	170,509	124,000	166,220	512,521,700	585,646,900
38,800	52,011	39,500	52,949	186,951,500	185,200,100
....	....	2,300	3,083	....	1,432,520
44,000	58,981	66,000	88,472	11,901,700	233,626,700
4,920	6,595	4,620	6,193	27,541,540	24,754,800
43,000	57,641	42,000	56,300	197,796,000	198,919,400
885	1,186	890	1,193	4,495,000	2,940,600
300	402	300	402	33,400	338,960
2,600	3,485	2,625	3,519	13,247,040	12,313,920
3,825	5,127	3,900	5,228	20,126,400	19,415,400
3,125	4,189	2,925	3,921	16,840,800	15,314,400
1,710	2,292	1,695	2,272	10,920,080	9,701,040
5,775	7,741	5,810	7,788	35,354,340	32,324,100
3,750	5,027	3,725	4,993	22,355,500	20,892,390
8,895	11,924	8,960	12,011	52,845,640	51,058,320
3,350	4,491	3,375	4,524	19,185,600	18,156,480
12,000	16,086	12,000	16,086	68,183,320	67,788,180
2,000	2,681	1,955	2,621	11,491,150	10,906,260
1,830	2,453	1,830	2,453	9,472,880	8,257,140
675	905	720	965	3,793,505	4,842,330
8,250	11,059	8,250	11,059	26,462,500	37,025,700
8,400	11,260	8,100	10,858	30,072,820	40,906,410
330	442	360	483	1,368,720	1,765,720
4,350	5,831	4,400	5,898	25,449,405	27,743,805
1,300	1,743	1,300	1,743	7,953,000	8,752,400
1,700	2,279	1,700	2,279	7,766,400	10,754,400
4,530	6,072	4,500	6,032	26,765,160	25,809,320
510	684	910	1,220	3,233,784	1,806,393
5,800	7,775	5,520	7,399	13,782,400	16,946,800
360	483	360	483	2,073,400	1,876,900
290	389	290	389	1,327,104	1,378,944
59,000	79,088	58,500	78,418	472,771,000	437,876,900
53,000	71,046	54,000	72,386	400,550,400	373,738,200
24,500	32,842	47,000	63,003	3,108,630	213,908,390
....	....	27,900	37,399	....	85,307,420

It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants; in some cases it is, but in many cases it is not. Principal among the factors which govern the maximum dependable capacity of an hydraulic power development and which are not reflected in column headed "Maximum normal plant capacity," are abnormal variations in water supply and operating limitations encountered when developments are so situated on a given stream as to be affected by one another.

†25-cycle stations, others 60-cycle, except as indicated.

POWER GENERATED

Generating stations	Maximum normal plant capacity October 31, 1949	
	kilowatts	horsepower
NORTHERN ONTARIO PROPERTIES		
ABITIBI DISTRICT		
Abitibi Canyon—Abitibi river	†184,000	246,649
TIMISKAMING DISTRICT		
Matabitchuan—Matabitchuan river	9,000	12,064
Upper Notch—Montreal river (one unit in service)	4,200	5,630
Fountain Falls—Montreal river	2,000	2,681
Hound Chute—Montreal river	3,600	4,826
Indian Chute—Montreal river	2,800	3,753
Lower Sturgeon—Mattagami river	†6,000	8,043
Sandy Falls—Mattagami river	†3,200	4,290
Wawaitin—Mattagami river	†9,100	12,198
SUDBURY DISTRICT		
Coniston—Wanapitei river	4,400	5,898
McVittie—Wanapitei river	2,300	3,083
Stinson—Wanapitei river	5,600	7,507
Crystal Falls—Sturgeon river	8,000	10,724
NIPISSING DISTRICT		
Nipissing—South river	1,600	2,145
Bingham Chute—South river	900	1,206
Elliott Chute—South river	1,300	1,743
La Cave (temporary steam plant)	....	....
MANITOULIN DISTRICT		
Kagawong—Kagawong river (hydraulic & diesel units)	1,300	1,743
PATRICIA DISTRICT		
Rat Rapids—Albany river	2,500	3,351
Ear Falls—English river	19,600	26,274
Total generated by the H-E.P.C.	1,495,200	2,004,290

†25-cycle stations, others 60-cycle.

POWER PURCHASED

Power sources	Contract amount October 31, 1949		Total purchased during the fiscal year ended	
	kilo-watts	horse-power	Oct. 31, 1948 kilowatt-hours	Oct. 31, 1949 kilowatt-hours
Southern Ontario System				
Canadian Niagara Power Co. (contract units)	14,920	20,000	91,239,200	124,434,300
Canadian Niagara Power Co. (special purchase)	....	....	....	12,950,000
Department of Transport (Welland ship canal)	....	....	4,091,900	410,000
Polymer Corporation	22,500	30,161	....	58,520,220
Gatineau Power Co.	253,640	340,000	1,423,937,700	1,358,811,300
Ottawa Valley Power Co.	80,568	108,000	394,057,150	421,479,450
Beauharnois Light, Heat and Power Co.	223,800	300,000	1,848,900,000	1,796,830,000
Maclaren-Quebec Power Co.	138,010	185,000	854,176,000	746,079,000
M. F. Beach Estate	373	500	2,824,800	3,126,000
Rideau Power Co.	298	400	2,430,400	2,366,400
Campbellford Water and Light Commission	597	800	8,463,700	5,245,400
Miscellaneous	....	....	12,942,567	21,335,013
Thunder Bay System				
Kaministiquia Power Co.	....	....	25,257,600	3,955,520
Miscellaneous	....	....	474,128	946,440
Northern Ontario Properties				
Abitibi Power & Paper Co.	....	....	5,399,456	23,691,158
Miscellaneous	....	....	....	2,693,130
Total purchased	734,706	984,861	4,674,194,601	4,582,873,331

IN COMMISSION STATIONS (Continued)

Peak load during fiscal year ended				Total energy output during fiscal year ended	
October 31, 1948		October 31, 1949		Oct. 31, 1948	Oct. 31, 1949
kilowatts	horsepower	kilowatts	horsepower	kilowatt-hours	kilowatt-hours
180,000	241,287	181,000	242,627	1,022,290,000	1,028,830,000
9,000	12,064	8,800	11,796	50,725,100	47,487,800
....	....	4,300	5,764	....	2,550,000
2,000	2,681	2,100	2,815	13,666,500	14,064,900
3,600	4,826	3,800	5,094	20,384,990	24,517,091
3,030	4,062	3,100	4,155	14,103,000	16,223,000
6,000	8,043	6,000	8,043	32,156,605	42,965,015
3,200	4,290	3,100	4,155	17,568,304	12,190,484
7,500	10,054	10,400	13,941	34,920,692	47,018,938
5,050	6,769	4,280	5,737	23,018,400	26,252,000
2,400	3,217	2,440	3,271	15,740,640	17,929,280
5,820	7,802	5,850	7,842	20,377,310	26,040,140
8,200	10,992	8,450	11,327	34,219,600	45,634,800
1,660	2,225	1,630	2,185	8,617,840	8,933,680
960	1,287	940	1,260	4,805,900	5,094,400
1,390	1,863	1,400	1,877	4,934,000	5,647,600
....	....	1,850	2,480	....	75,199
992	1,330	1,233	1,653	4,057,660	4,881,860
2,520	3,378	2,620	3,512	15,416,680	13,856,080
16,000	21,448	19,700	26,408	98,335,440	120,350,000
*	*	*	*	8,879,893,929	9,450,076,659

SUMMARY OF POWER GENERATED AND PURCHASED

	kilowatts	horsepower
Power purchased, contract amount, 1949	734,706	984,861
Maximum normal plant capacity, 1949	1,495,200	2,004,290
Total available capacity, generated and purchased, 1949	2,229,906	2,989,151
Total available capacity, generated and purchased, 1948	2,149,076	2,880,800
Difference (increase)	80,830	108,351

	kilowatt-hours
Total energy purchased, 1949	4,582,873,331
Total energy generated, 1949	9,450,076,659
Total energy generated and purchased, 1949	14,032,949,990
Total energy generated and purchased, 1948	13,554,088,530
Difference (increase)	478,861,460

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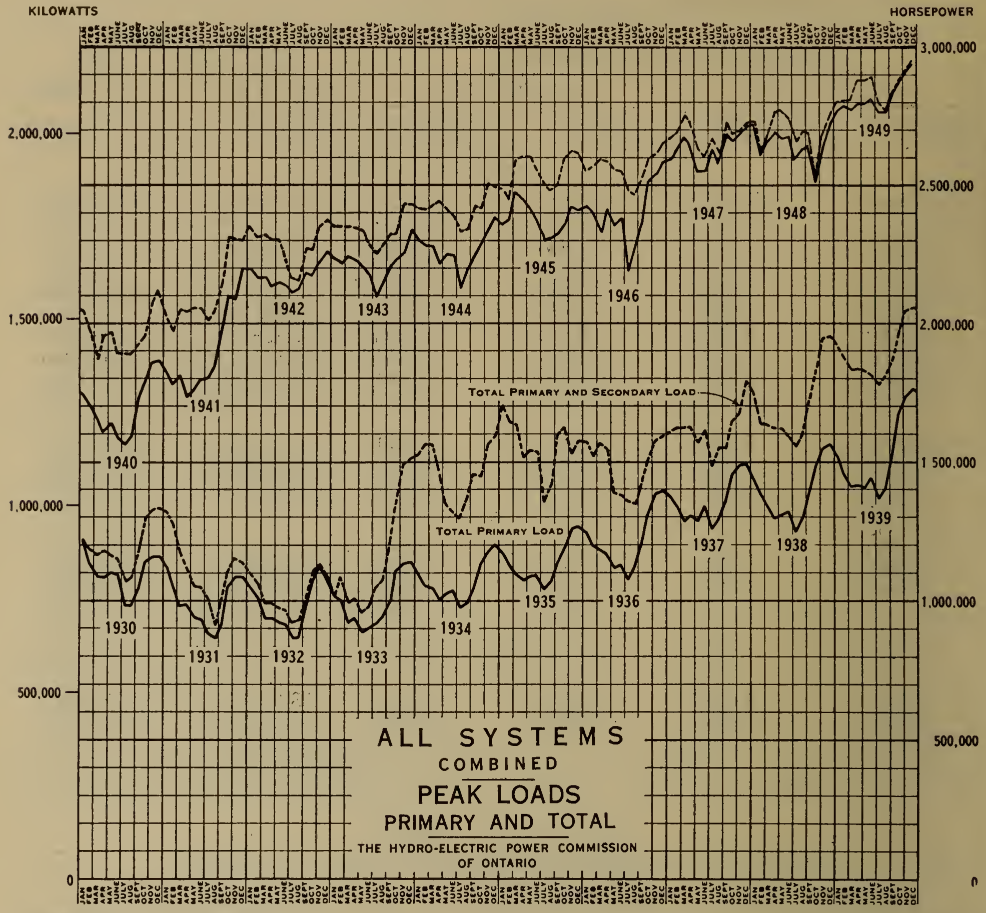
*Because the peak loads on all the various generating stations in a system do not occur coincidentally, the sum of these generating-station peak loads should not be construed as representative of the peak load of that system. †25-cycle stations; others 60-cycle.

It is proposed in future reports to use kilowatts rather than horsepower as the unit of electrical power. In the above tabulation of generating stations power is expressed in both units using round numbers of kilowatts and their exact equivalents of horsepower, whereas heretofore round numbers of horsepower have been quoted.

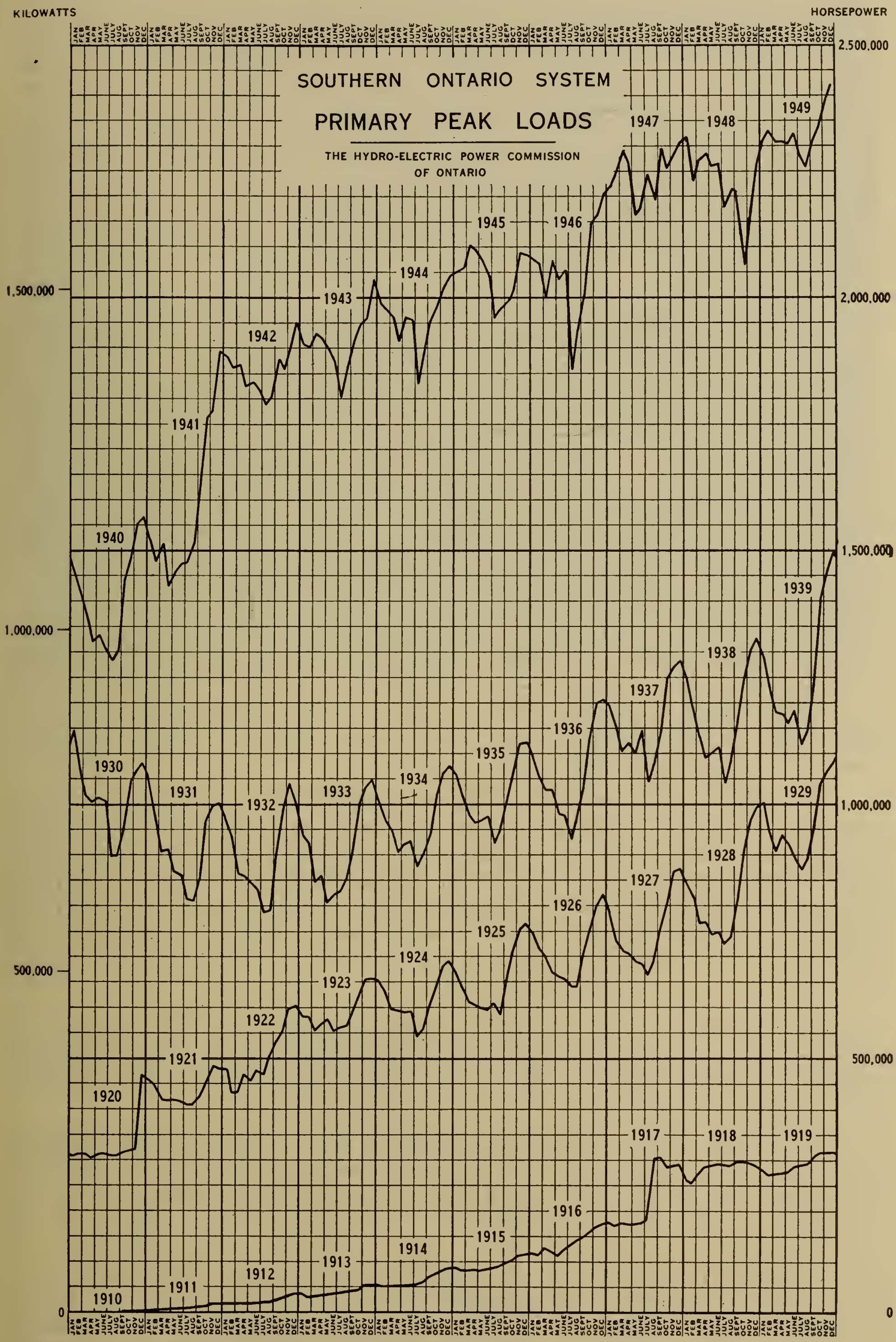


avoid excessive power cuts to heavy industries. Because of restrictions, allocations and daylight saving time, it was difficult to determine the potential load growth in the Southern Ontario system during the fiscal year. However, a survey of the various load sections of the system, indicated that the demands of the heavy industries situated principally in the Niagara district at the end of October 1949 had receded some 60,000 to 70,000 kilowatts from a year ago and that this recession had been offset by municipal and rural growth.

Operation

With the exception of two, 1,000-kilowatt diesel units placed in service at Hamilton and certain minor adjustments in former plant ratings, the maximum normal generating capacity available to the Southern Ontario system remained practically the same as in the previous fiscal year, the adjusted rating for the 35 hydraulic plants plus the capacity of the two small diesel units being 1,048,100 kilowatts.

The output of the Commission's generating stations available to the Southern Ontario system was fully and efficiently utilized throughout the year. At the close of navigation on the Welland ship canal on December 15, 1948, the permissible diversion from the canal was increased 2,500 cubic


KILOWATTS
HORSEPOWER
SOUTHERN ONTARIO SYSTEM
PRIMARY PEAK LOADS
THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO
1,500,000
1,000,000
500,000
0
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC
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feet per second. Through negotiations between the Canadian and the United States governments, a temporary additional diversion from the Niagara river during the non-navigation season on the Welland ship canal became available on December 23, 1948. This increase in diversion permitted the operation of all of the 25-cycle plants in the Niagara region at full output.

Under contract arrangements, initial delivery of 60-cycle steam-generated power from the Polymer Corporation at Sarnia was made on November 1, 1948. Part of this power is used directly in the Sarnia area and part is transmitted to the Westminster frequency-changer and transformer station near London, where interconnections are made with the Southern Ontario system high-voltage network.

The water situation at the close of the previous year was decidedly unfavourable both in Ontario and Quebec and had led to a severe power deficiency in Ontario, necessitating restrictions in the delivery of power to all classes of consumers. The situation improved considerably by the middle of November 1948 when heavy rains occurred and this, followed by a relatively mild and open winter allowed the gradual easing of power restrictions and the complete withdrawal of all restrictions, except on commercial lighting during Monday to Friday daytime hours, on February 15, 1949. On May 16 regulations restricting the use of electricity were further eased when restrictions on interior store lighting were lifted. However, peak demands continued to exceed available resources, necessitating industrial load cutting on most working days throughout the year.

The 1949 spring run-off filled practically all reservoirs in the Southern Ontario system but extremely light precipitation during the summer caused a rapid depletion of storage reserves, and the power situation at the commencement of the 1949-50 winter season again became a matter of grave concern to the Commission.

The water storage reserves of Quebec suppliers were considerably below normal at the end of the fiscal year and the Maclaren-Quebec Power Company reduced its energy delivery by 3,385,000 kilowatt-hours per week below contract commencing October 24, 1949. While the Gatineau Power Company was able to meet its full contract commitments and also assisted by supplying additional daytime power in place of night energy, concern was felt for the continuation of this supply during the winter, because of the low-water reserves available on the Gatineau river.

The seasonal increase in primary power demands during September 1949 made Ontario industrial load cutting progressively greater. Because of this situation, regulations governing the use of electricity similar to those adopted a year previously were placed in force on October 1, 1949.

In addition to the Commission's normal power supply to the Southern Ontario system, some 60,000 kilowatts of excess power and energy were purchased from the Beauharnois Light, Heat and Power Company, and by arrangement with the Niagara-Hudson Power Corporation, delivery of the 45,000 kilowatts covered by "firm" export agreement was withdrawn for use of Canadian consumers for the most part of each day. Additional power up to 37,000 kilowatts was obtained from the Canadian Niagara Power Company. Also, during the power emergencies in the winter of 1948-49 and again at the close of the year, every effort was made to obtain by special

SUPERVISION OF POWER DISTRIBUTION IN SOUTHERN ONTARIO

On this power supervisor's board are recorded the production of power at certain major generating stations, the loading of frequency-changer units, and other quantities, such as the level of water in the Queenston generating station forebay, to enable him to regulate the distribution of power throughout the system.

arrangement any small amounts of power wherever and whenever available. During the year approximately 695,000,000 kilowatt-hours were purchased for the Southern Ontario system in excess of deliveries made under the main purchased power agreements, and approximately 44,000,000 kilowatt-hours were obtained through the arrangement with the Niagara-Hudson Corporation releasing the export of "firm power."

A mild and open winter kept ice troubles at generating stations to a minimum. Storms accompanied by high winds caused much damage to transmission lines in the western portion of the system on two occasions, and on two other occasions faults developing on the 230,000-volt lines caused a complete collapse of the 230,000-volt system, interrupting all eastern power supply. Apart from the above and the problem of assuring a fair and equitable distribution of the available supply of power to all classes of consumers, no serious difficulties were encountered during the year in the operation of the Southern Ontario system.

During the year, a number of new transmission lines, transformer and distributing stations were placed in service to take care of new and increasing loads and also to prepare for the frequency change-over from 25 to 60 cycles. Details are given in Section VI of this Report.

SUMMATION OF PEAK LOADS IN KILOWATTS AS SUPPLIED TO URBAN MUNICIPAL UTILITIES AND FOR RURAL HYDRO SERVICE, SHOWING TREND OF POWER DEMANDS 1948-1949

System	Total of peak loads in kilowatts		Net increase in kilowatts	Number of utilities with			Total
	July to Dec. 1948	July to Dec. 1949		De-creases	Increases	No change	
Urban Municipal Utilities							
Southern Ontario....	1,159,673	1,286,508	126,835	36	272	2	310
Thunder Bay.......	42,852	55,209	12,357	1	8	0	9
Northern Ontario Properties........	35,538	39,451	3,913	4	17	0	21
Rural Hydro Service							
Southern Ontario....	176,623	213,276	36,653	1	87	0	88
Thunder Bay.......	1,553	2,242	689	0	2	0	2
Northern Ontario Properties........	4,390	7,008	2,618	0	6	0	6
Total, Rural Service.	182,566	222,526	39,960	1	95	0	96

NOTE: The yearly peak demands of the individual municipal Hydro utilities do not all occur during the same month of the year nor, for any given municipality, do they always occur in the same month in successive years; in nearly all cases, however, the yearly peak occurs during the second half of the calendar year. For this reason a comparison of the peaks during the second half of the year as shown in the tables of this section shows most satisfactorily the general trend of the local loads. The loads given above for rural Hydro service are a summation of the loads in the various operational districts and are similarly obtained.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Acton................	Jan. 1913	25	1,839.6	1,903.2	....	63.6
Agincourt............	Nov. 1922	25	329.7	520.8	....	191.1
Ailsa Craig...........	Jan. 1916	25	199.2	185.3	13.9	....
Alexandria...........	Jan. 1921	60	460.4	534.2	....	73.8
Alliston..............	June 1918	60	610.1	666.7	....	56.6
Almonte..............	Feb. 1945	60	646.4	667.3	....	20.9
Alvinston.............	April 1922	25	134.2	153.8	....	19.6
Amherstburg..........	Feb. 1919	25	1,318.4	1,589.2	....	270.8
Ancaster Twp.—V.A...	Jan. 1914	25	470.9	594.7	....	123.8
Apple Hill............	April 1921	60	53.1	56.5	....	3.4
Arkona...............	Dec. 1926	25	100.8	117.3	....	16.5
Arnprior.............	June 1929	60	1,648.0	1,744.9	....	96.9
Arthur...............	Dec. 1916	60	247.0	305.0	....	58.0
Athens...............	Jan. 1929	60	163.0	158.8	4.2	....
Aurora...............	Dec. 1920	25	1,667.2	1,716.9	....	49.7

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Aylmer	Mar. 1918	25	1,360.0	1,560.7	....	192.7
Ayr	Jan. 1915	25	348.1	375.0	....	26.9
Baden	May 1912	25	586.1	705.4	....	119.3
Bala	April 1929	60	487.0	510.8	....	23.8
Barrie	April 1913	60	4,870.6	5,485.0	....	614.4
Bath	Nov. 1931	60	66.8	89.8	....	23.0
Beachville	Aug. 1912	25	648.0	731.6	....	83.6
Beamsville	Jan. 1930	25	683.1	722.3	....	39.2
Beaverton	Nov. 1914	60	426.9	443.8	....	16.9
Beeton	Aug. 1918	60	137.3	154.4	....	17.1
Belle River	Dec. 1922	25	292.3	338.6	....	46.3
Belleville	Mar. 1916	60	8,417.5	9,519.1	....	1,101.6
Blenheim	Nov. 1915	25	644.6	825.9	....	181.3
Bloomfield	April 1919	60	221.8	235.7	....	13.9
Blyth	July 1924	25	227.0	304.9	....	77.9
Bobcaygeon	July 1946	60	309.1	325.2	....	16.1
Bolton	Feb. 1915	25	269.6	291.7	....	22.1
Bothwell	Sept. 1915	25	145.2	207.0	....	61.8
Bowmanville	Mar. 1916	60	3,119.1	3,462.1	....	343.0
Bradford	Oct. 1918	60	481.4	585.1	....	103.7
Braeside	June 1929	60	234.3	227.5	6.8	....
Brampton	Nov. 1911	25	3,408.2	3,845.0	....	436.8
Brantford	Feb. 1914	25	20,315.3	23,091.5	....	2,776.2
Brantford Twp.—V.A.	Oct. 1915	25	2,702.4	3,311.0	....	608.6
Brechin	Jan. 1915	60	71.8	57.0	14.8	....
Bridgeport	Mar. 1928	25	284.6	287.2	....	2.6
Brigden	Jan. 1918	25	139.7	148.8	....	9.1
Brighton	Mar. 1916	60	600.5	717.7	....	117.2
Brockville	April 1915	60	6,179.0	7,712.6	....	533.6
Bronte	Jan. 1930	66⅔	238.4	257.6	....	19.2
Brussels	July 1924	25	286.8	311.0	....	24.2
Burford	June 1915	25	384.5	402.2	....	17.7
Burgessville	Nov. 1916	25	97.3	101.8	....	4.5
Burlington	Jan. 1930	66⅔	2,034.2	2,359.8	....	325.6
Burlington Beach	Jan. 1930	25 & 66⅔	577.4	622.4	....	45.0
Caledonia	Oct. 1912	25	427.4	489.4	....	62.0
Campbellville	Jan. 1925	25	78.2	73.8	4.4	....
Cannington	Nov. 1914	60	368.3	357.0	11.3	....
Cardinal	July 1930	60	472.4	498.4	....	26.0
Carleton Place	May 1919	60	2,179.7	2,224.2	....	44.5
Cayuga	Nov. 1924	25	223.6	242.6	....	19.0
Chatham	Feb. 1915	25	8,177.6	9,698.5	....	1,520.9
Chatsworth	Dec. 1915	60	127.5	173.0	....	45.5
Chesley	July 1916	60	852.2	862.2	....	10.0
Chesterville	April 1914	60	603.2	598.2	5.0	....
Chippawa	Sept. 1919	25	410.0	465.6	....	55.6
Clifford	May 1924	25	144.0	182.7	....	38.7
Clinton	Mar. 1914	25	989.4	1,034.0	....	44.6
Cobden	Dec. 1934	60	231.7	277.2	....	45.5
Cobourg	Mar. 1916	60	2,982.1	3,136.4	....	154.3

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Colborne	Mar. 1916	60	307.8	363.0		55.2
Coldwater	Mar. 1913	60	203.7	154.9	48.8	
Collingwood	Mar. 1913	60	3,000.7	3,024.2		23.5
Comber	May 1915	25	154.4	171.3		16.9
Cookstown	May 1918	60	144.9	148.0		3.1
Cottam	Feb. 1919	25	124.6	147.0		22.4
Courtright	Dec. 1923	25	67.2	76.7		9.5
Creemore	Nov. 1914	60	212.6	228.9		16.3
Dashwood	Sept. 1917	25	167.0	179.0		12.0
Delaware	Mar. 1915	25	99.6	124.2		24.6
Delhi	May 1938	25	764.1	970.0		205.9
Deseronto	Mar. 1916	60	366.4	373.0		6.6
Dorchester	Dec. 1914	25	150.0	161.7		11.7
Drayton	Mar. 1918	25	156.1	176.8		20.7
Dresden	April 1915	25	662.8	705.4		42.6
Drumbo	Dec. 1914	25	139.2	161.6		22.4
Dublin	Oct. 1917	25	77.9	80.3		2.6
Dundalk	Dec. 1915	60	294.1	302.4		8.3
Dundas	Jan. 1911	25	2,862.4	3,226.3		363.9
Dunnville	June 1918	25	1,495.2	1,726.5		231.3
Durham	Dec. 1915	60	593.8	605.1		11.3
Dutton	Sept. 1915	25	228.2	269.8		41.6
East York Twp.—V.A.	Dec. 1923	25 & 60	13,935.7	16,459.9		2,524.2
Elmira	Nov. 1913	25	1,574.8	1,774.6		199.8
Elmvale	June 1913	60	242.9	281.4		38.5
Elmwood	April 1918	60	126.1	133.6		7.5
Elora	Nov. 1914	25	608.0	583.8	24.2	
Embro	Jan. 1915	25	195.9	201.2		5.3
Erieau	July 1924	25	275.0	270.0	5.0	
Erie Beach	July 1925	25	49.6	52.6		3.0
Erin	Jan. 1945	60	150.0	150.0		
Essex	Feb. 1919	25	718.8	884.9		166.1
Etobicoke Twp.—V.A.	Aug. 1917	25	15,683.2	18,384.3		2,701.1
Exeter	June 1916	25	1,013.6	1,144.0		130.4
Fergus	Nov. 1914	25	1,554.1	1,820.7		266.6
Finch	Feb. 1928	60	140.4	169.8		29.4
Flesherton	Dec. 1915	60	135.3	155.4		20.1
Fonthill	June 1926	25	340.7	434.8		94.1
Forest	Mar. 1917	25	658.8	676.3		17.5
Forest Hill	Jan. 1938	25	7,378.0	8,432.0		1,054.0
Frankford	Oct. 1937	60	271.8	293.0		21.2
Galt	May 1911	25	10,994.8	12,359.9		1,365.1
Georgetown	Sept. 1913	25	2,426.1	2,364.3	61.8	
Glencoe	Aug. 1920	25	225.3	261.0		35.7
Goderich	Feb. 1914	25	2,064.2	2,102.8		38.6
Grand Valley	Dec. 1916	60	250.3	241.8	8.5	
Granton	July 1916	25	84.4	87.8		3.4
Gravenhurst	Nov. 1915	60	1,465.5	1,446.5	19.0	
Grimsby	Jan. 1930	25	952.5	1,197.5		245.0
Guelph	Dec. 1910	25	11,979.9	13,758.0		1,778.1

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Hagersville	Sept. 1913	25	1,043.8	1,206.2	....	162.4
Hamilton	Feb. 1911	60, 25 & 66⅔	134,852.2	158,673.6	....	23,821.4
Hanover	Sept. 1916	60	1,844.4	2,045.4	....	201.0
Harriston	July 1916	25	643.0	677.9	....	34.9
Harrow	Feb. 1919	25	799.1	756.6	42.5	....
Hastings	June 1931	60	194.7	215.9	....	21.2
Havelock	Feb. 1921	60	240.9	291.4	....	50.5
Hensall	Jan. 1917	25	305.0	325.0	....	20.0
Hepworth	April 1930	60	54.4	69.2	....	14.8
Hespeler	Feb. 1911	25	3,093.2	3,359.2	....	266.0
Highgate	Dec. 1916	25	98.8	126.3	....	27.5
Holstein	May 1916	60	34.5	33.2	1.3	....
Humberstone	Oct. 1924	25	673.7	815.0	....	141.3
Huntsville	Sept. 1916	60	1,391.6	1,626.0	....	234.4
Ingersoll	May 1911	25	3,211.2	3,494.5	....	283.3
Iroquois	Feb. 1940	60	344.3	394.0	....	49.7
Jarvis	Feb. 1924	25	176.1	219.7	....	43.6
Kemptville	Dec. 1921	60	372.8	556.0	....	183.2
Kincardine	Mar. 1921	60	1,121.8	1,191.2	....	69.4
Kingston	Dec. 1917	60	17,353.7	20,424.3	....	3,070.6
Kingsville	Feb. 1919	25	779.1	928.6	....	149.5
Kirkfield	June 1920	60	36.7	37.9	....	1.2
Kitchener	Jan. 1911	25	27,585.9	30,150.6	....	2,564.7
Lakefield	Aug. 1920	60	535.9	666.0	....	130.1
Lambeth	April 1915	25	204.5	262.0	....	57.5
Lanark	Sept. 1921	60	148.6	169.0	....	20.4
Lancaster	May 1921	60	69.7	85.2	....	15.5
La Salle	Nov. 1925	25	414.5	516.6	....	102.0
Leamington	Feb. 1919	25	2,692.2	2,615.5	76.7	....
Lindsay	Mar. 1916	60	3,980.3	4,054.4	....	74.1
Listowel	June 1916	25	1,663.5	1,729.5	....	66.0
London	Jan. 1911	25	37,610.7	40,937.6	....	3,326.9
London Twp.—V.A.	Sept. 1917	25	646.7	831.9	....	185.2
Long Branch	Jan. 1931	25	2,230.2	2,673.9	....	443.7
Lucan	Feb. 1915	25	312.7	328.4	....	15.7
Lucknow	Jan. 1921	60	491.5	449.0	42.5	....
Lynden	Nov. 1915	25	149.1	156.2	....	7.1
MacTier	April 1929	60	....	....	....	....
Madoc	Mar. 1916	60	381.9	451.8	....	69.9
Markdale	Mar. 1916	60	261.4	293.8	....	32.4
Markham	April 1920	25	458.2	514.9	....	56.7
Marmora	Jan. 1921	60	198.8	217.2	....	18.4
Martintown	May 1921	60	67.0	73.8	....	6.8
Maxville	Feb. 1921	60	154.0	176.2	....	22.2
Meaford	Jan. 1924	60	1,094.5	1,232.4	....	137.9
Merlin	Dec. 1922	25	126.3	150.6	....	24.3
Merritton	Nov. 1920	25	9,057.7	10,269.7	....	1,212.0
Midland	July 1911	60	4,251.1	4,607.0	....	355.9
Mildmay	April 1930	60	221.6	230.2	....	8.6
Millbrook	Mar. 1916	60	164.6	186.4	....	21.8

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Milton	April 1913	25	1,658.0	1,810.5		152.5
Milverton	June 1916	25	497.4	469.5	27.9	
Mimico	May 1912	25	3,311.0	3,736.5		425.5
Mitchell	Sept. 1911	25	1,019.8	1,036.6		16.8
Moorefield	Mar. 1918	25	70.4	86.9		16.5
Morrisburg	June 1938	60	587.1	589.1		2.0
Mount Brydges	Mar. 1915	25	122.3	112.1	10.2	
Mount Forest	Dec. 1915	60	791.0	767.7	23.3	
Napanee	Mar. 1916	60	1,656.8	1,751.1		94.3
Neustadt	Dec. 1918	60	102.5	116.4		13.9
Newboro	Dec. 1948	60	36.0	46.3		10.3
Newburgh	Mar. 1916	60	91.4	89.5	1.9	
Newbury	Mar. 1921	25	56.0	83.0		27.0
Newcastle	Mar. 1916	60	290.3	375.2		84.9
New Hamburg	Mar. 1911	25	783.0	872.4		89.4
Newmarket	Dec. 1920	25	2,157.3	2,306.0		148.7
New Toronto	Feb. 1914	25	10,290.6	10,252.2	38.4	
Niagara Falls	Dec. 1915	25	9,931.5	11,070.5		1,139.0
Niagara	Aug. 1919	25	1,029.0	1,050.8		21.8
North York Twp.—V.A.	Nov. 1923	25	16,932.7	23,417.3		6,484.6
Norwich	May 1912	25	478.8	545.7		66.9
Norwood	Feb. 1921	60	263.6	260.8		7.2
Oakville	Jan. 1930	25 & 66⅔	2,350.7	3,053.7		703.0
Oil Springs	Feb. 1918	25	154.0	170.5		16.5
Omemee	Jan. 1918	60	231.0	231.0		
Orangeville	July 1916	60	1,021.9	1,142.1		120.2
Orillia	Sept. 1947*	60	1,066.0	1,682.0		616.0
Orono	Mar. 1916	60	137.6	153.6		16.0
Oshawa	Mar. 1916	60	18,672.6	21,843.5		3,170.9
Ottawa	Jan. 1914	60	31,911.0	34,810.0		2,899.0
Otterville	Feb. 1916	25	157.6	185.7		28.1
Owen Sound	Dec. 1915	60	7,348.5	7,574.5		226.0
Paisley	Sept. 1923	60	236.2	247.7		11.5
Palmerston	July 1916	25	619.3	658.2		38.9
Paris	Feb. 1914	25	2,011.3	2,208.8		197.5
Parkhill	May 1920	25	342.8	410.2		67.4
Parry Sound	Aug. 1946	60	518.2	621.9		103.7
Penetanguishene	July 1911	60	1,241.6	1,318.0		76.4
Perth	Feb. 1919	60	2,172.2	2,125.7	46.5	
Peterborough	Mar. 1913	60	18,865.0	20,180.0		1,315.0
Petrolia	May 1916	25	889.7	982.6		92.9
Picton	April 1919	60	1,757.9	1,893.4		135.5
Plattsville	Dec. 1914	25	259.7	249.7	10.0	
Point Edward	Nov. 1916	25	1,796.0	2,142.0		346.0
Port Carling	April 1929	60	480.1	460.1	20.0	
Port Colborne	Mar. 1920	25	1,898.9	2,207.5		308.6
Port Credit	Aug. 1912	25	1,207.0	1,516.0		309.0
Port Dalhousie	Nov. 1912	25	1,139.7	1,119.8	19.9	
Port Dover	Dec. 1921	25	726.1	783.1		57.0
Port Elgin	April 1930	60	847.0	888.2		41.2

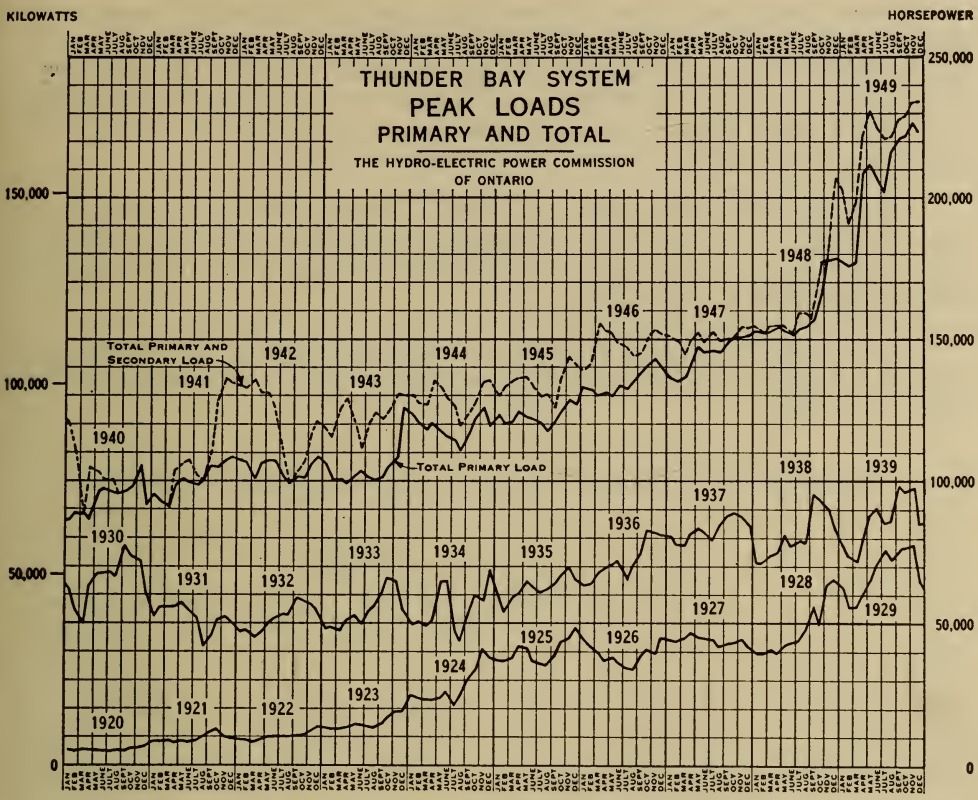
*First date of regular supply. Power has been sold to and purchased from Orillia for the past 30 years or more but only on an intermittent basis.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Port Hope	Mar. 1916	60	3,400.5	3,606.6	....	206.1
Port McNicoll	Jan. 1915	60	140.1	163.3	....	23.2
Port Perry	Sept. 1922	60	462.7	454.0	8.7	....
Port Rowan	Nov. 1926	25	123.2	168.9	....	45.7
Port Stanley	April 1912	25	1,321.0	1,190.7	130.3	....
Prescott	Dec. 1913	60	1,339.6	1,442.8	....	103.2
Preston	Jan. 1911	25	4,192.6	4,604.8	....	412.2
Priceville	Mar. 1921	60	18.6	18.7	....	0.1
Princeton	Jan. 1915	25	185.2	197.2	....	12.0
Queenston	Mar. 1921	25	162.4	170.1	....	7.7
Renfrew	Dec. 1944	60	1,072.5	1,456.0	....	383.5
Richmond	Aug. 1928	60	116.3	133.5	....	17.2
Richmond Hill	June 1925	25	755.3	827.0	....	71.7
Ridgetown	Dec. 1915	25	566.0	674.9	....	108.9
Ripley	Jan. 1921	60	136.2	153.7	....	17.5
Riverside	Nov. 1922	25	1,750.3	2,040.5	....	290.2
Rockwood	Sept. 1913	25	205.1	220.9	....	15.8
Rodney	Feb. 1917	25	172.9	225.0	....	52.1
Rosseau	July 1931	60	73.8	88.1	....	14.3
Russell	Feb. 1926	60	134.6	134.4	0.2	....
St. Catharines	April 1914	60,25&66⅔	23,600.1	25,564.0	....	1,963.9
St. Clair Beach	Nov. 1922	25	115.2	134.5	....	19.3
St. George	Sept. 1915	25	204.5	226.8	....	22.3
St. Jacobs	Sept. 1917	25	364.5	404.4	....	39.9
St. Marys	May 1911	25	1,962.5	1,998.0	....	35.5
St. Thomas	April 1911	25	7,697.0	8,268.0	....	571.0
Sarnia	Dec. 1916	25	10,359.8	12,018.0	....	1,658.2
Scarborough Twp.-V.A.	Aug. 1918	25 & 60	8,500.5	12,029.1	....	3,528.6
Seaforth	Nov. 1911	25	1,160.5	1,209.6	....	49.1
Shelburne	July 1916	60	376.0	440.1	....	64.1
Simcoe	April 1915	25	2,778.8	2,980.0	....	201.2
Smiths Falls	Sept. 1918	60	3,749.0	4,004.4	....	255.4
Smithville	Jan. 1930	25	506.9	440.6	66.3	....
Southampton	April 1930	60	845.1	867.9	....	22.8
Springfield	Aug. 1917	25	101.4	114.2	....	12.8
Stamford Twp.—V.A.	Nov. 1916	25	3,829.0	4,713.6	....	884.6
Stayner	Oct. 1913	60	394.0	450.7	....	56.7
Stirling	Mar. 1916	60	439.1	471.1	....	32.0
Stoney Creek	Jan. 1930	25	504.3	665.2	....	160.9
Stouffville	Sept. 1923	25	543.0	594.9	....	51.9
Stratford	Jan. 1911	25	7,609.9	8,050.5	....	440.6
Strathroy	Dec. 1914	25	1,738.1	1,692.8	45.3	....
Streetsville	Dec. 1934	25	653.3	671.0	....	17.7
Sunderland	Nov. 1914	60	225.7	222.4	3.3	....
Sutton	Aug. 1923	25	760.1	794.1	....	34.0
Swansea	Oct. 1937	25	3,236.5	3,349.1	....	112.6
Tara	Feb. 1918	60	173.7	198.3	....	24.6
Tavistock	Nov. 1916	25	676.6	702.6	....	26.0
Tecumseh	Nov. 1922	25	680.7	727.5	....	46.8
Teeswater	Dec. 1920	60	241.3	284.6	....	43.3

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Concluded

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Thamesford	Feb. 1914	25	300.5	310.7	....	10.2
Thamesville	Oct. 1915	25	260.3	356.7	....	96.4
Thedford	May 1922	25	207.5	200.0	7.5	....
Thornbury	Sept. 1944	60	169.1	198.8	....	29.7
Thorndale	Mar. 1914	25	149.0	155.0	....	6.0
Thornton	Nov. 1918	60	55.0	64.6	....	9.6
Thorold	Jan. 1921	25	3,110.7	3,410.8	....	300.1
Tilbury	April 1915	25	997.0	1,174.0	....	177.0
Tillsonburg	Aug. 1911	25	1,927.4	2,102.3	....	174.9
Toronto	June 1911	25 & 60	326,035.9	345,520.0	....	19,484.1
Toronto Twp.—V.A.	Aug. 1913	25	6,043.0	6,896.2	....	853.2
Tottenham	Oct. 1918	60	104.6	141.1	....	36.5
Trafalgar Twp.—V.A.	Dec. 1923	25 & 66⅔	931.3	1,135.8	....	204.6
Trenton	Mar. 1916	60	5,992.7	6,378.7	....	386.0
Tweed	Mar. 1916	60	505.0	529.2	....	24.2
Uxbridge	Sept. 1922	60	527.6	553.9	....	26.3
Victoria Harbour	July 1914	60	142.3	179.7	....	36.8
Walkerton	April 1930	60	1,247.3	1,301.0	....	53.7
Wallaceburg	Feb. 1915	25	6,115.4	6,506.6	....	391.2
Wardsville	June 1921	25	73.0	104.4	....	31.4
Warkworth	Oct. 1923	60	96.1	108.2	....	12.1
Waterdown	Nov. 1911	25	356.6	473.7	....	117.1
Waterford	April 1915	25	481.9	515.3	....	33.4
Waterloo	Dec. 1910	25	6,262.0	6,849.0	....	587.0
Watford	Sept. 1917	25	456.4	526.6	....	70.2
Waubaushene	Dec. 1914	60	236.2	288.6	....	52.4
Welland	Sept. 1917	25	9,634.3	10,620.7	....	986.4
Wellesley	Nov. 1916	25	183.2	200.4	....	17.2
Wellington	April 1919	60	516.7	487.2	30.5	....
West Lorne	Jan. 1917	25	551.5	591.4	....	39.9
Weston	Aug. 1911	25	4,714.6	5,422.5	....	707.9
Westport	Nov. 1931	60	155.6	176.0	....	20.4
Wheatley	Feb. 1924	25	330.1	373.8	....	43.7
Whitby	Mar. 1916	60	1,747.4	1,968.0	....	220.6
Wiarton	April 1930	60	584.4	620.0	....	35.6
Williamsburg	April 1915	60	110.2	119.2	....	9.0
Winchester	Jan. 1914	60	557.1	663.0	....	105.9
Windermere	June 1930	60	131.9	140.6	....	8.7
Windsor	Oct. 1914	25	46,298.6	51,722.3	....	5,423.7
Wingham	Dec. 1920	60	1,113.2	1,180.2	....	67.0
Woodbridge	Dec. 1914	25	994.8	1,192.8	....	198.0
Woodstock	Jan. 1911	25	8,506.6	8,763.6	....	257.0
Woodville	Nov. 1914	60	139.6	72.3	67.3	....
Wyoming	Nov. 1916	25	172.4	154.8	17.6	....
York Township	Jan. 1913	25	25,646.2	29,355.2	....	3,709.0
Zurich	Sept. 1917	25	173.6	190.6	....	17.0



THUNDER BAY SYSTEM

Load Trends

The maximum peak load on the Thunder Bay system was 172,307 kilowatts. Compared with the corresponding peak of the previous fiscal year, it shows an increase of 30.3 per cent. The total energy generated and purchased during the year amounted to 1,115,732,870 kilowatt-hours, 23.7 per cent above that of the previous year.

The above large increases in load reflect the addition of the Kaministiquia Power Company's system to the Thunder Bay system on April 1, 1949, and the picking up of the new load of the Longlac Pulp & Paper Company in November 1948.

Operation

On December 12, 1948, a second unit of 20,000-kilowatt capacity at the Aguasabon development was placed in service and on April 1, 1949, the Commission acquired the properties of the Kaministiquia Power Company, which included the Kakabeka generating station of 27,700 kilowatts. These additions raised the maximum normal operating capacity of the generating stations serving the Thunder Bay system to 175,700 kilowatts.

Water conditions in the Thunder Bay area, on the whole, were above normal during the year. All primary demands were met and, in addition, 85,105,200 kilowatt-hours were produced for the operation of electric boilers. As a result of the new capacity added during the year, the overall output, including a small amount of purchased power, was 23.7 per cent greater than the corresponding output in the previous fiscal year.

On April 8, the Commission acquired Ontario-Minnesota Pulp & Paper Company's Moose Lake plant, containing two generators which are operated as synchronous condensers for the regulation of voltage at that point. Certain line facilities were also acquired.

Three new distributing stations were placed in service during the year and the capacities of three others were increased. Details are given in Section VI of this Report.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES—1948-1949

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Atikokan Improvement District	Dec. 1944	60	328.4	468.0	....	139.6
Beardmore Imp. Dist.	June 1937	60	236.7	233.2	3.5	....
Fort William	Oct. 1926	60	16,714.4	*26,127.1	....	9,412.7
Geraldton Townsite	Feb. 1937	60	744.8	815.6	....	70.8
Nipigon Twp.—V.A.	Jan. 1925	60	482.7	552.6	....	69.9
Port Arthur	Dec. 1910	60	23,221.0	25,636.4	....	2,415.4
Red Rock Improvement District	Feb. 1948	60	325.2	328.0	....	2.8
Schreiber Twp.	Nov. 1948	60	177.8	337.5	....	159.7
Terrace Bay Improvement District	Jan. 1948	60	621.2	710.6	....	89.4

*NOTE:—Fort William acquired the customers of the Kaministiquia Power Company on Nov. 1, 1949.

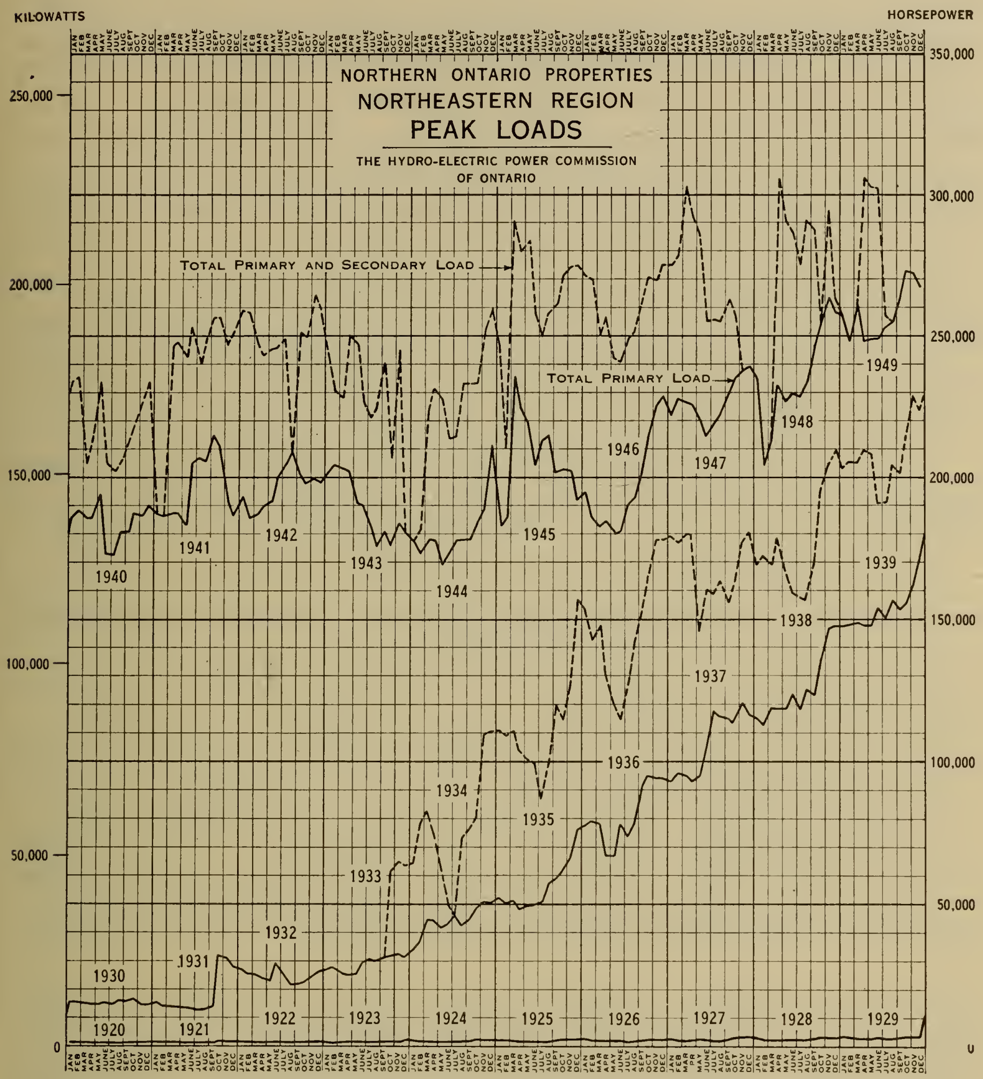
NORTHERN ONTARIO PROPERTIES

Load Trends

The maximum peak load of the Northern Ontario Properties comprising the districts of Abitibi, Timiskaming, Sudbury, Nipissing, Patricia and Manitoulin rose from 244,059 kilowatts in 1948 to 257,560 kilowatts in 1949, an increase of 5.5 per cent. The total energy generated and purchased during 1949 was 1,536,926,555 kilowatt-hours, exceeding that of the previous year by 6.7 per cent.

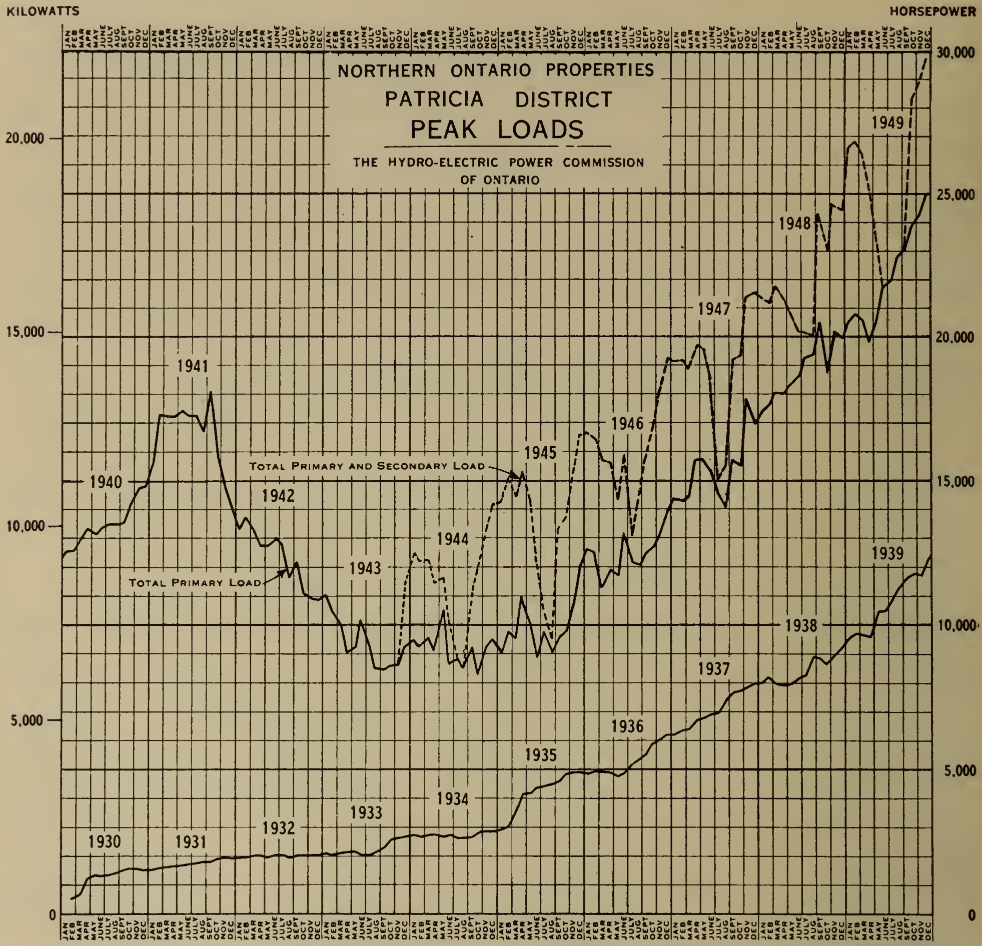
Operation

The two units at the Upper Notch generating station which had been out of service for conversion to 60 cycles, were returned to service, one on



October 3, and the second on November 17, 1949. At the end of October 1949, the maximum normal operating capacity of the 19 generating stations serving the Northern Ontario Properties was 271,400 kilowatts.

Water supply to the plants serving the Northern Ontario Properties was very low at November 1, 1948, and it became necessary to place all customers in the Northeastern region on a weekly quota of kilowatt-hours effective November 8, 1948. Shortly after the institution of quotas, heavy rain occurred and this, combined with a relatively mild and open winter, allowed restrictions to be gradually reduced and led to the suspension of all restrictions on February 21, 1949. The spring run-off was of moderate proportions but sufficient to fill most of the storage



reservoirs. Precipitation during the summer, however, was light and led to a rapid depletion of storage waters, resulting in below normal water conditions at the end of the year which gave rise to grave doubts of the Commission's ability to meet the 1949-50 winter load. In view of this situation, negotiations were started for the purchase of surplus power from the Rapide VII plant of the Quebec Hydro-Electric Commission and also to obtain assistance from the Abitibi Power & Paper Company when available.

On October 16, 1949, Little Current distributing station, of 600-kva capacity, together with a connecting line from the International Nickel Company's Lawson Quarry substation, was placed in service. Thus, the Manitoulin district was interconnected with the Sudbury district which in turn is connected with the districts of Abitibi, Timiskaming and Nipissing, forming a complete integration of all districts comprising the Northeastern region.

This region was operated in close co-operation with the Abitibi Power & Paper Company to make the most efficient use of the water available throughout the area. During the period of high flow in the spring when not all of the water could be stored, surplus energy was supplied to the Abitibi Power & Paper Company for the operation of electric boilers to the extent of some 78,000,000 kilowatt-hours.* At other times, in the interest of making the most efficient use of river flows and to meet current operating conditions, interchange between the Northeastern region and the Abitibi Company's system took place, with the net result that the Commission received 24,000,000 kilowatt-hours from the Abitibi Power & Paper Company during the year.

Due to the small reserve capacity available to the 60-cycle network of the Northeastern region, there were many occasions of temporary power shortages resulting from failure of either generating units, frequency-changers or tie-lines between districts. On a number of these occasions assistance was obtained from the Huronian Company at Coniston.

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*In most cases where surplus energy is used to operate electric boilers it is sold on an "at-will" basis and is used for the production of process steam.

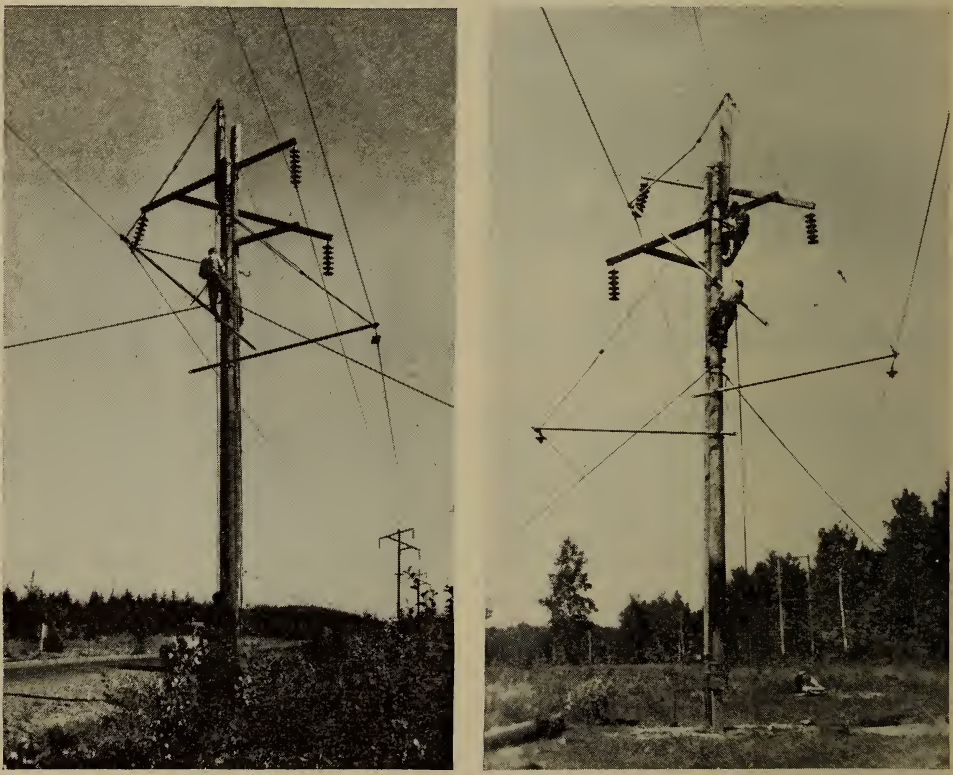
NORTHERN ONTARIO PROPERTIES—LOADS OF MUNICIPALITIES—1948-1949

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
ABITIBI DISTRICT						
Elk Lake	Jan. 1945	25	97.1	88.0	9.1	....
Hislop Townsite	Oct. 1936	25	47.2	52.1	....	4.9
Kearns Townsite	Dec. 1938	25	163.4	111.7	51.7	....
King Kirkland Townsite	Dec. 1936	25	45.6	47.2	....	1.6
Matachewan Townsite	April 1935	25	214.9	227.5	....	12.6
Matheson	Dec. 1935	25	151.7	195.6	....	43.9
TIMISKAMING DISTRICT						
Englehart	Jan. 1945	60	428.5	405.3	23.2	....
Haileybury	Jan. 1945	60	822.8	847.8	....	25.0
New Liskeard	Jan. 1945	60	1,437.5	1,473.4	....	35.9
Schumacher	Jan. 1945	25	910.9	823.2	87.7	....
South Porcupine	Jan. 1945	25	1,095.0	1,205.5	....	110.5
Teck Township	Jan. 1945	60	4,167.5	4,314.0	....	146.5
Timmins	Jan. 1945	25	7,093.0	7,298.5	....	205.5
SUDBURY DISTRICT						
Capreol	May 1935	60	524.6	669.9	....	145.3
Sudbury	Feb. 1930	60	11,101.2	13,566.8	....	2,465.6
NIPISSING DISTRICT						
North Bay	Mar. 1916	60	5,744.6	6,379.7	....	635.1
Powassan	Mar. 1916	60	173.8	197.1	....	23.3
PATRICIA DISTRICT						
Cottage Cove	Nov. 1940	60	148.2	197.0	....	48.8
Hudson	Oct. 1939	60	110.4	131.0	....	20.6
Red Lake Townsite	June 1938	60	463.2	527.2	....	64.0
Sioux Lookout	Sept. 1939	60	597.0	692.3	....	95.3

To provide for new and increasing loads and, also add to the greater flexibility in the operation of the Northeastern region as a whole, several new line sections and transformer and distributing stations were placed in service during the year. Details of these additions are given in Section VI of this Report.

In the Manitoulin district, which operated independently of the Northeastern region prior to October 16, 1949, adequate water was available during the freshet period. At other times it was necessary to make extensive use of the diesel units at the Kagawong plant, and as there was little or no reserve generating capacity, any loss of capacity usually necessitated load reductions especially over peak load periods.

The Patricia district, which eventually will be interconnected with the Thunder Bay system to form a complete integration of the Northwestern region, operated as an independent area throughout the year. Resources in this district were adequate to meet all primary demands and, in addition, the district supplied 20,045,000 kilowatt-hours for the operation of electric boilers of four mining companies.



LIVE-LINE OPERATIONS ON 115,000-VOLT, WOOD-POLE TRANSMISSION

Upwards of 300 poles have been changed with the circuit alive. For this work men are specially selected and trained and experience has demonstrated that the method is safe and practical

PATROL OF HIGH-VOLTAGE TRANSMISSION LINES BY HELICOPTER

This method is proving both practicable and economical

MAINTENANCE OF THE SYSTEMS

Generation

Aside from the routine maintenance and inspection of all hydraulic equipment, five large turbines, four in the Niagara district and one at the Chats Falls plant, were completely overhauled. During the summer, a new runner was installed in one of the turbines at the Ontario Power plant. Essential overhauling and reconditioning of the smaller turbines, principally those in the plants serving the Timiskaming district, were carried out.

During the year, four large and sixteen small generators with two large synchronous condensers were given major overhauls. The majority of the generators in all plants received routine inspection and a number of generators damaged by lightning required minor repairs.

Several 115,000-volt circuit-breakers were modernized in order to increase their rupturing capacity.

Transmission

Approximately 11,000 defective poles in the older transmission and distribution lines were replaced. Numerous low-tension line relocations were made to accommodate highway and road widening throughout the Province.

Suspension insulators on 285 circuit-miles of 115,000-volt lines, pin-type insulators on 15 circuit-miles of 115,000-volt lines, and pin-type insulators on approximately 50 miles of low-voltage lines were tested and defective ones replaced.

Some 300 double-circuit towers on which galvanizing had deteriorated were painted.

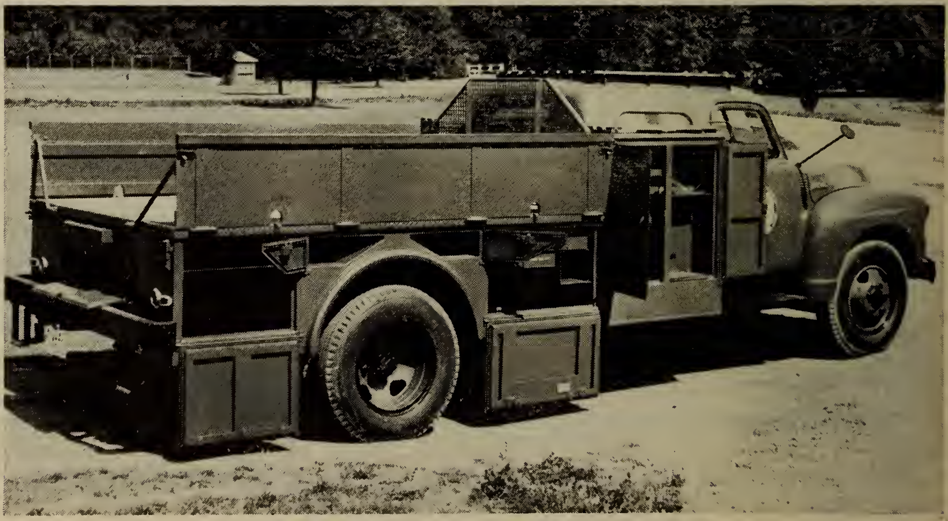
A Bell 47D helicopter was purchased by the Commission for use in patrol of high-voltage transmission lines. This aircraft is now doing regular patrol of the 230,000-volt network and certain isolated 115,000-volt transmission lines, and is proving itself a practical and economical device.

It is also expected when emergencies arise on these lines that restoration of service will be expedited by use of the helicopter for locating the trouble and transporting men and equipment to aid in the repairs.

Transformation

There were few major transformer failures during the year. Many transformers ranging in capacity from 50 to 8,000 kilovolt-amperes were overhauled and a few were completely rebuilt. Numerous transformer bushings of all types were also rebuilt.

To provide for increased loads and more flexible operating conditions throughout the various systems, a number of new stations were placed in service and the capacity of many existing stations was increased, involving in all the addition of approximately 550,000 kva in new transformer capacity.



FORESTRY LINE-CLEARING TRUCK

First of its type manufactured in Canada; of cast-steel construction with six-man cab and of three-ton·capacity. Carries full complement of tools

In the Southern Ontario system, a number of 25-cycle transformers were replaced by transformers of dual frequency and the higher rating of the 60-cycle winding of the transformers, which will become available as frequency standardization progresses, has been used in estimating the transformer capacity added during the year.

FORESTRY WORK

Line Clearing

The following tabulation shows the work performed on transmission, rural and municipal line-clearing operations during the fiscal year 1948-49, exclusive of the work done by linemen:

Summary of Line Clearing Operations

	Brush cutting pole spans	Trees treated	Miles of line cleared	Tree density per mile
New line construction	142	13,682	239	57.2
Municipal Hydro systems (21)	....	6,980	77	90.6
Transmission and telephone lines	951	57,561	2,523	22.8
Rural operating areas	1,129	58,879	1,123	52.4
Rural operating areas—Contractors	1,369	69,324	1,205	57.5
Total	3,591	206,426	5,167	39.9

Forest Management

A total of 58,000 trees were planted covering some 48 acres of land in the Niagara region. Of these trees 43,000 were planted in the spring and 15,000 were planted in September, using a tree-planting machine built by the mechanical staff of the Niagara region, and modelled on the Den Nyl Planter developed at Purdue University.

In preparation for the 1950 reforestation program, an order for 60,000 seedling trees was placed with the Ontario Department of Lands and Forests.

In the Niagara region work was started on these areas by marking for removal the diseased and poorly formed trees on 28 acres of woodlot. Ten acres of woodlot were cleared of small weed trees and brush in order to encourage the growth of seedlings and saplings of the more desirable species.

Approximately 20 acres of open wooded land in the DeCew Falls area were cleared of brush in preparation for treatment of the area by reforestation.

Field work was carried on in the Northeastern region, where a total of 3,800 acres of land was surveyed at Cox's Chute, Braie Lake, Nipissing, Elliott Chute, Bingham Chute and Crystal Falls.

SECTION II

REPORTS FROM THE REGIONS RELATING TO MUNICIPAL ACTIVITIES

THE COMMISSION'S nine regional organizations completed their first full year of operation at the end of 1949. They were established throughout the Province to administer more effectively the affairs of the Commission, and to bring the public into closer touch with its personnel. Details of the establishment of the regions and their boundaries are given in the Annual Report for 1948. During the year the responsibilities of the regional staffs were broadened to effect a greater decentralization of the Commission's activities.

The municipal Hydro utilities are responsible for the retail distribution of the power and energy supplied to them on a wholesale basis by The Hydro-Electric Power Commission of Ontario. The Commission has always co-operated closely with the municipalities, giving engineering and administrative advice concerning their special problems and The Power Commission Act gives to the central Commission control over the rates charged to the ultimate consumers. Establishment of the regional offices enables these services to be rendered more effectively.

In the following pages brief particulars of some of the more important municipal activities of each region are given:

WESTERN REGION

Aylmer—A control system for approximately 120 flat-rate water-heaters was installed during the year.

Chatham—A new two-storey garage building in the rear of the Queen street substation was constructed to house all the heavy line trucks.

Delaware—The distribution voltage in the village was changed from 4 to 8 kv and new feeders were constructed in order to tie into the new distributing station. The village distribution system was changed from single-phase to three-phase at this time.

Leamington—A by-law setting up the Public Utilities Commission to manage water and gas utilities as well as the Hydro was approved by the electors at the 1949 December election and the first Commission will be elected in 1950.

Wallaceburg—The second municipal station and the 26.4-kv tie line between the two stations were completed. The tie line includes a submarine cable under the Sydenham river.

WEST CENTRAL REGION

Brantford—The primary distribution system to the area of West Brantford, which carries an industrial load of approximately 2,500 kw and a domestic and commercial load of some 1,000 kw, was completely rebuilt. Municipal station No. 6 was built and put in service in this area with a dual-frequency capacity of 1,500/2,700 kva. Municipal station No. 8, a consumer-owned station, was nearly completed. Some 4,000 feet of 26.4-kv transmission line was constructed to feed these stations.

A 3,000/5,000-kva dual-frequency substation was completed in Eagle Place for a large industrial consumer.

Brantford Township—A new storeroom, meter-room and garage facilities were acquired at a cost of $2,000.

Guelph—A new outdoor-type substation is under construction in the central section of the city, to consist of one 1,500-kva and one 750-kva transformer.

Hamilton—Construction of a new office and service building, costing some $1,145,000, was started late in December 1949, with completion scheduled prior to March 1951.

On May 1, 1949, certain sections of Saltfleet and Barton townships were annexed by the city of Hamilton. At this time the Hamilton Hydro-Electric System took over 2,388 consumers and the distribution system serving them from the Saltfleet rural operating area.

Hespeler—No. 1 substation was enlarged to a 3,000-kva station. In rebuilding, accommodation was made for a modern garage and storeroom at a cost of $23,000.

Kitchener—A new bungalow-type No. 7 substation at the intersection of East and Stirling avenues was put into service in 1949. This 3,000-kva station, including land, building and equipment such as water heater control, cost approximately $63,000.

Waterloo—The offices of the Public Utilities Commission were moved from the City Hall, where they had been located for fifty years, to a new situation at 88 King street south. A building was taken over and practically rebuilt at a total cost of $40,000, housing offices and a large warehouse with a two-truck garage.

NIAGARA REGION

Merritton—Construction was commenced of a modern office building which is expected to be completed and occupied early in 1950.

Thorold—In conjunction with the installation of a modern street-lighting system, all primary circuits were removed from the main street and a tie feeder constructed between the two municipally-owned stations.

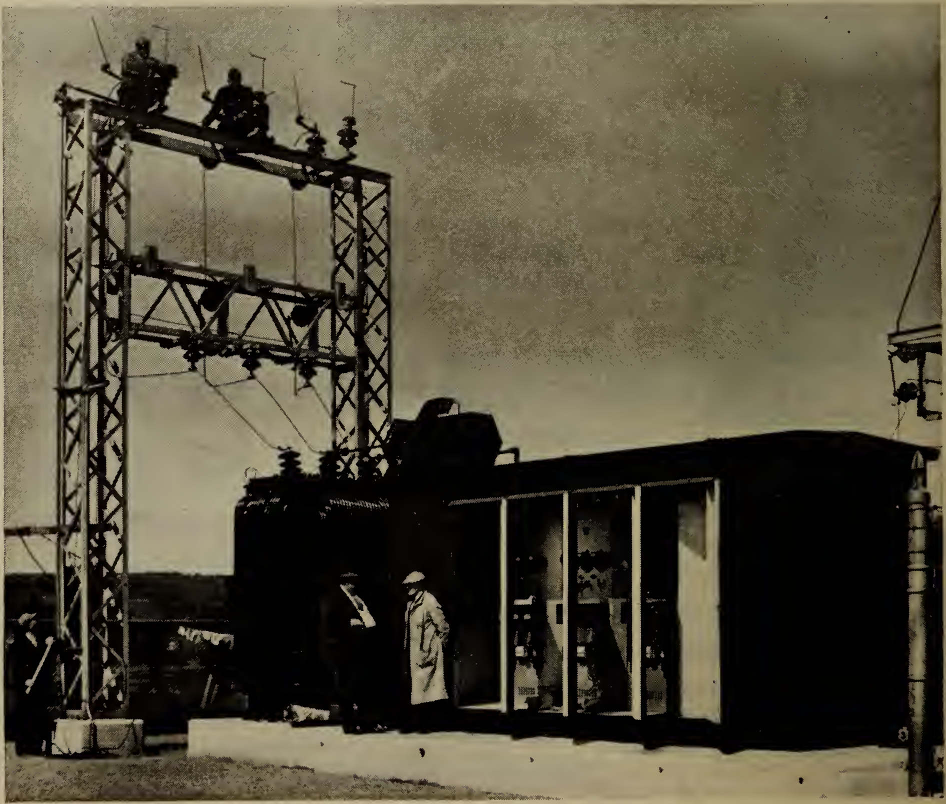
Welland—A new substation of 3,000-kva capacity was placed in service.

TORONTO REGION

East York Township—Installation was completed of a new 3,600-kva, 60-cycle substation to supply a number of new industries in the O'Connor drive industrial area. Frequency standardization of a number of domestic consumers was carried out in the northeastern section of the municipality. Approval was given for the issue of debentures in the amount of $600,000 for the installation of a new substation and the rewinding of six existing substation transformers to provide additional capacity at 60 cycles.

Etobicoke Township—A 3,000/5,400-kva, municipally-owned substation was placed in service in the Kingsway area. Facilities were installed to supply one large manufacturing plant and a number of smaller industrial consumers.

Milton—A new 2,000/3,600-kva, unit-type substation was placed in service in May. The 2,300-volt supply to a number of power consumers was changed to 4,000 volts.



NEW TRANSFORMER SUBSTATION AT MILTON
The 2,000/3,600-kva dual-frequency transformer has three feeders. Photograph taken just prior to completion. Officially opened May 27, 1949

Mimico—A new office building owned by the Hydro system and occupied jointly by the Public Utilities and the municipal offices was completed. The official opening took place on August 3, 1949. A second municipally-owned substation in the industrial section of the municipality was placed in service on August 1, 1949.

North York Township—Three new municipally-owned substations were installed to provide for the rapidly growing load in the Township and very extensive additions were made to the distribution system in new housing areas. The office building was substantially enlarged by the addition of a second storey to house the rapidly increasing office staff.

Oakville—On January 1, 1949, Oakville became a Hydro municipality obtaining power on a cost basis, replacing the previous contract for power supplied by the Commission at a fixed rate. Extensive changes and rebuilding of the distribution system were carried out in the municipality and a customer-owned substation was installed by a large industrial consumer to take power at subtransmission voltage.

Scarborough Township—The boundaries of the Voted Area were extended to take in the "Geco" industrial area and 150 lighting consumers from the Markham rural operating area. Three new 26.4-kv, 60-cycle, customer-owned substations were installed by industrial consumers. Frequency standardization for the Township commenced in October and will be completed early in 1950.

Streetsville—At the request of the Streetsville Public Utilities Commission, arrangements were made for the Brampton rural area staff to take over the operation and maintenance of the town distribution system.

Trafalgar Township—One new substation was installed and an existing substation rebuilt and enlarged to provide for increased growth in the municipality.

Weston—The wood-pole line was removed for the full length of the main street and distribution circuits and street-lighting equipment erected on steel trolley-poles. A new 450-kva, 26-kv, municipally-owned substation was erected.

York Township—Radio communication for use in relay protection for a number of substations and to provide intercommunication between office and trucks was put into operation. Approval was given for the construction of a garage and stores building to cost $175,000.

GEORGIAN BAY REGION

Beaverton—A new 44-kv, 1,000-kva substation was placed in service, replacing the former 22-kv, 600-kva substation.

Burks Falls—The municipality voted to take power from the Commission on a cost-contract basis and an agreement was signed on October 31, 1949. The existing distribution system was purchased from Knight Bros. Lumber Company, and will be rebuilt for 12/6.9-kv operation.

Erin—The Corporation voted to obtain a supply of power at cost from the Commission and to purchase the local distribution system.

Kincardine—The distributing station capacity was increased from 750 to 2,000-kva and two additional feeder circuits were provided.

Markdale—A new 600-kva substation was erected to supply the town.

Mildmay—The distribution system was changed from 4,000/2,300-volt to 8,000/4,600-volt operation and is supplied from the new Walkerton rural station.

Neustadt—The distribution system was changed from 4,000/2,300-volt to 8,000/4,600-volt operation and supplied from the new Hanover rural station.

Owen Sound—A new 3,000-kva municipal station, to serve the western section of the city, is nearing completion.

Parry Sound—A survey was made of the dam at the Parry Sound plant on the Seguin river, preparatory to its being strengthened next year. Heavier primary feeders are being strung from the plant to load centres in the town.

Tara—The distributing station capacity was increased from 150 to 300 kva.

Wingham—A new 2,000-kva distributing station was placed in service providing three feeder outlets for the town's distribution system. The distribution-system voltage is being changed from 2,300-delta to 4,000/2,300-volt operation.

EAST CENTRAL REGION

Bancroft—A 44-kv line was extended to Bancroft and a new substation was completed in October in order to supply power to the village under a cost contract with the Commission. The power supplied under this contract will supplement the supply of power obtained by the municipality from its own generating plant.

Bobcaygeon—Assistance was given to the local Commission in an effort to determine the most advantageous operating conditions, involving a study of the possibility of operating the local generating plant in parallel with the Commission's power supply.

Cobourg—Additional substation capacity was installed and provision made for supplying power at 4,160 volts instead of 2,300. The local Commission is carrying out necessary changes in its distribution system to operate at the higher voltage.

Frankford—The local distribution system which had been owned and operated by The Hydro-Electric Power Commission of Ontario was purchased by the municipality on September 1, 1949.

Kingston—Arrangements were made by the local Commission for a third substation to serve the north section of the city.

Newburgh—The municipality purchased from The Hydro-Electric Power Commission of Ontario the local electrical utility and commenced operating as a cost municipality on July 1, 1949. This is the last of the municipalities in the former Central Ontario system to take such action.

Port Hope—A new substation was put in service to provide added power for local industries.

Trenton—Municipal substation No. 3, to supply the south section of the town, was completed.

Whitby—The local Commission erected a new office building with storeroom and garage. Changes were made in the distribution system to serve new industries at the south end of the town.

MODERN OFFICE BUILDING FOR WHITBY PUBLIC UTILITIES

EASTERN REGION

Almonte—Extensive alterations were undertaken at the intake of the municipal generating station, including new head gates, racks and an additional by-wash intended to overcome ice conditions prevalent in former years.

Brockville—A new municipal substation of 2,000-kva initial capacity was constructed to serve increasing loads in the municipality.

Ottawa—Approval was obtained for the Ottawa Hydro-Electric Commission to purchase the assets in Ontario of the Ottawa Light, Heat and Power Company, Limited. Approval was obtained for the local Commission to expend $100,000 for a new transformer bank and switching structure at Ottawa transformer station. Consideration was given to additional sources of power supply to meet the greatly increasing load of the municipality on account of the annexation of new areas and the development of new housing projects.

Prescott—Work was undertaken on the rehabilitation of the distribution system which makes provision for a separate power circuit for power customers in the town.

Smiths Falls—A building was acquired and renovated to provide permanent office quarters for the utility staff. Construction work on a new 3,000-kva municipal substation was undertaken.

NORTHEASTERN REGION

Cache Bay—Electors in this town voted in favor of obtaining a power supply from the Commission and also in favor of a necessary money by-law covering the distribution system.

Latchford—The municipality entered into an agreement for power supply with the Commission and authorized the Commission to construct its distribution system.

Township of Larder Lake (Larder Lake Village)—
Improvement District of McGarry (Virginiatown)—Prior to 1949 electric service in these municipalities was provided by Proprietary Mines Limited. On March 1, 1949, however, they purchased the distribution systems and entered into a contract with the Commission for power.

Matheson—The distribution system was changed in April 1949 for 12/6.9-kv operation with the installation of a new substation.

NORTHWESTERN REGION

Atikokan Improvement District—The distribution system has been considerably enlarged to take care of the expansion of the Townsite which was created by the increased development of the Steep Rock Iron Mines, Limited.

Fort William—Arrangements have been completed for the Fort William Hydro-Electric Commission to purchase from the Commission certain parts of the former Kaministiquia Power Company system lying within the boundaries of the city of Fort William, with the exception of service to the Mission mill of the Abitibi Power & Paper Company, Limited.

Port Arthur—The Port Arthur Commission completed this year the conversion of their distribution system from 2,300-volt delta operation to 4,000-volt Y operation. The capacity of their High street station has been increased from 2,250 kva to 5,000 kva during this year.

Schreiber Township—A new permanent distributing station has been erected serving this municipality, to replace a temporary station erected the previous year. The Canadian Pacific Railway Company, which has a divisional point at this place, has discontinued generating its own power and is now taking service from Schreiber township.

Terrace Bay Improvement District—A new station was erected to serve this municipality. Power was previously supplied from the facilities of the Longlac Pulp & Paper Company, Limited.

SECTION III

THE COMMISSION AND ITS CONSUMERS

Municipal Activities and Load Conditions Reviewed—Power Restrictions—Financial Progress of Utilities—Service to Industries—Electrical Inspection

AT THE CLOSE of the fiscal year, October 31, 1949, the Commission was supplying electric power to 1,017 municipalities in the Province under provisions of The Power Commission Act. Of this number, 309 urban municipalities and voted areas in townships were supplied under individual cost agreements, and each operated its own electric utility under provisions of The Public Utilities Act. A group of 38 other urban municipalities includes those which were served under agreements at a fixed price or where the Commission provided service direct to the customers therein through its own facilities. The remaining group, numbering 670, are townships or municipalities and areas treated as townships which are provided with rural electric service and dealt with in Section IV of this Report.

The expansion of business in large urban and suburban municipalities required the extension of plant and capital expenditures of sufficient amounts to necessitate raising funds by debentures. Numerous requests from municipalities for approval of projects of this nature and assent to the issue of debentures were dealt with by the Commission.

No general revision of rate schedules was made. A few municipalities made minor changes to adjust local rates for particular classes of customers or to standardize the rate structure in those municipalities which recently executed agreements for Hydro power.

Power Restrictions

Power restrictions which were necessary in the winter of 1947/48 were reimposed in September, 1948, and continued throughout the winter of 1948/49. During this season severe restrictions were necessary due to the long period of drought in the fall of 1948. On September 14, 1948 quotas for energy were established and enforced for each municipality in the southern part of the Province, while in the northern part, quotas were established on November 8, 1948. These quotas were altered from time to time through the latter part of 1948 to meet with the changing conditions. Water flow improved sufficiently in January, 1949 to permit the removal of the quotas for southern Ontario on February 1, 1949 and for northern Ontario on February 21, 1949. Later in the month other restrictions on lighting were removed and on March 31, 1949 all restrictions were withdrawn.

General regulations restricting the use of electricity for certain purposes were again reimposed on October 1, 1949, and water flow conditions existing at the end of the fiscal year indicated that if better than normal rainfall did not occur before freeze-up, resort to quotas would be necessary.

As compared to 1948, the load supplied to cost-contract municipalities showed an increase in 81 per cent of these and a decrease in the remainder. Of the cities, 72 per cent had increased loads, towns 84 per cent, villages 80 per cent and police villages 78 per cent, while in all the voted areas there were increased loads. The total amount of power supplied to all groups was 2.6 per cent greater than in the previous year.

GROWTH IN HYDRO DOMESTIC SERVICE 1914 TO 1948
ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		$			cents	$ c.	kw-hrs
1913				49,200			
1914	49	730,168	14,359,100	64,866	5.08	1.06	21
1915	....	854,748	20,935,000	85,865	4.08	0.92	22
1916	....	992,628	29,359,900	108,364	3.42	0.82	24
1917	123	1,340,855	41,930,200	131,313	3.20	0.91	29
1918	....	1,583,677	52,731,700	146,885	3.00	0.92	31
1919	....	1,933,577	68,409,100	169,455	2.82	1.01	35
1920	166	2,514,658	98,211,000	193,892	2.56	1.15	45
1921	....	3,086,051	124,619,800	219,465	2.48	1.24	50
1922	....	3,761,172	166,182,000	245,577	2.26	1.34	59
1923	206	4,955,420	242,926,600	286,852	2.04	1.54	76
1924	....	5,548,835	292,608,400	303,787	1.89	1.56	80
1925	....	6,414,134	342,356,700	326,307	1.85	1.67	90
1926	242	7,353,394	404,722,959	349,882	1.81	1.79	98
1927	267	8,497,190	469,851,690	387,573	1.80	1.87	103
1928	268	9,411,812	551,010,035	408,071	1.71	1.97	115
1929	273	10,256,860	612,141,722	424,419	1.67	2.05	122
1930	273	10,752,720	671,028,310	433,260	1.61	2.09	130
1931	289	11,226,091	704,784,457	447,466	1.59	2.12	133
1932	298	11,676,222	740,900,418	452,615	1.57	2.15	136
1933	300	11,639,178	742,195,402	460,878	1.57	2.10	134
1934	300	12,078,069	797,532,709	463,913	1.51	2.17	143
1935	302	12,393,536	826,972,873	471,265	1.50	2.19	146
1936	302	12,922,466	881,972,324	482,557	1.47	2.23	152
1937	305	12,680,921	926,350,703	490,140	1.37	2.16	157
1938	312	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939	317	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940	317	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941	320	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942	323	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943	323	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944	323	15,528,445	1,348,099,019	579,890	1.15	2.23	194
1945	340	16,053,818	1,494,258,124	608,905	1.07	2.20	205
1946	339	17,526,854	1,704,125,246	628,118	1.03	2.32	226
1947	339	18,937,674	1,870,974,898	648,282	1.01	2.43	240
1948	341	20,295,932	2,032,922,876	671,914	0.99	2.51	252

Statistical Summary of Growth by Utilities

The annual growths in revenue and kilowatt-hour consumption, also the reduction in the average cost per kilowatt-hour from 1914 to 1948 for all domestic and commercial consumers, are shown in the accompanying tables and graphs. The figures include all the municipal utilities listed in Statement "D" of Section X of this Report and also those municipal utilities owned and operated by The Hydro-Electric Power Commission of Ontario.

The tables give complete information for "all municipal utilities combined" for both domestic and commercial services; the graphs show only increased use and decreased cost for domestic and commercial services but give these data for cities, towns and villages as well as for "all municipalities combined."

It should be noted that the tables indicate the amount charged to consumers on their regular accounts and these figures do not include the further benefit that a larger number of consumers obtain in the form of cash refunds from time to time.

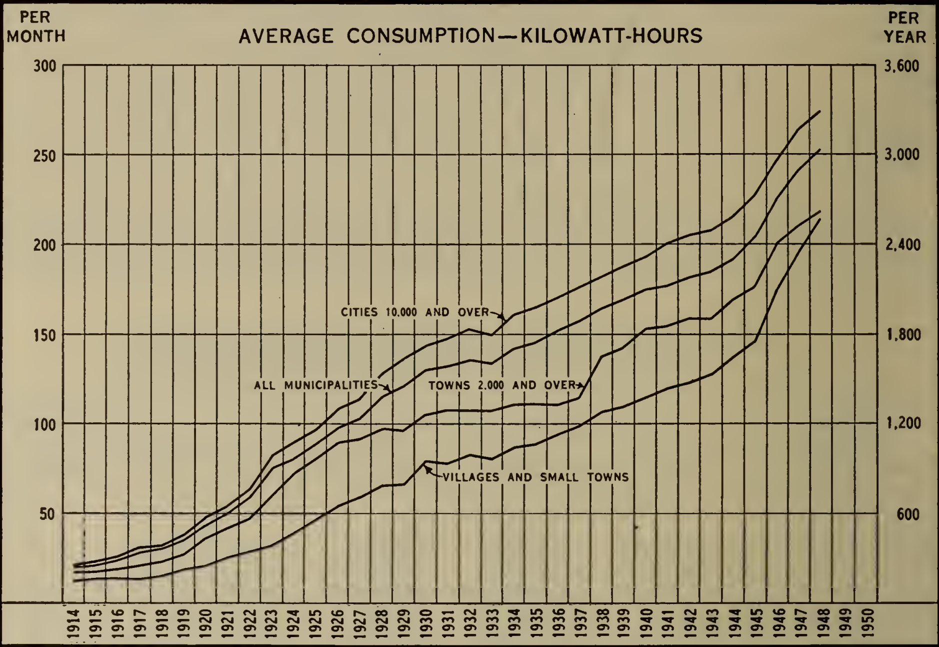
GROWTH IN HYDRO COMMERCIAL LIGHT SERVICE
1914 TO 1948—ALL URBAN MUNICIPALITIES COMBINED

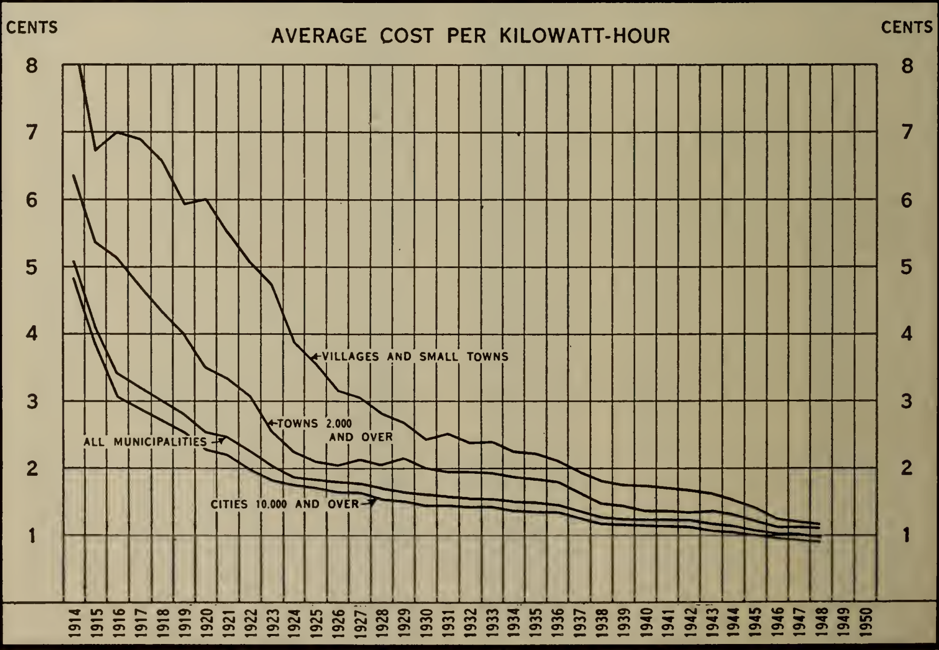
Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		$			cents	$ c.	kw-hrs
1913				13,113			
1914	43	624,781	15,669,700	15,657	4.00	3.63	91
1915	....	649,585	21,444,900	19,324	3.03	2.95	97
1916	....	753,784	26,866,000	22,216	2.82	2.87	102
1917	123	860,475	31,983,500	27,453	2.69	2.77	103
1918	....	947,769	35,053,500	29,570	2.70	2.70	99
1919	....	1,158,406	47,087,000	33,307	2.46	3.03	123
1920	166	1,477,963	59.336,900	36,496	2.50	3.51	140
1921	....	1,818,211	68,863,500	39,333	2.64	3.98	151
1922	....	2,143,981	81,216,000	43,098	2.64	4.26	162
1923	206	2,613,257	105,482,600	46,383	2.46	4.80	196
1924	....	2,907,427	120,474,800	50,137	2.41	4.99	207
1925	....	3,836,946	151,555,200	56,018	2.54	5.98	235
1926	242	4,176,595	171,797,014	58,444	2.43	6.08	250
1927	267	4,823,781	200,606,137	64,039	2.40	6.39	267
1928	268	5,436,795	234,526,831	68,013	2.32	6.66	287
1929	273	5,893,217	272,343,330	70,106	2.16	7.11	329
1930	273	6,094,871	287,838,022	71,873	2.11	7.15	338
1931	289	6,377,520	305,121,640	75,286	2.09	7.20	344
1932	298	6,402,882	306,596,543	75,705	2.09	7.05	338
1933	300	6,149,792	292,335,489	75,443	2.10	6.79	323
1934	300	6,344,921	306,632,722	75,016	2.07	7.05	341
1935	302	6,601,461	327,413,421	74,884	2.02	7.35	364
1936	302	7,001,893	355,235,553	75,878	1.97	7.69	390
1937	305	6,676,968	393,067,119	76,620	1.70	7.26	428
1938	312	6,909,454	427,020,841	78,021	1.62	7.38	456
1939	317	7,256,262	459,635,100	78,949	1.58	7.66	485
1940	317	7,785,024	508,986,422	79,512	1.53	8.16	533
1941	320	7,991,091	540,995,581	79,824	1.48	8.34	565
1942	323	7,695,928	531,680,336	77,326	1.45	8.29	573
1943	323	6,787,241	472,129,977	76,194	1.44	7.42	516
1944	323	7,298,848	524,905,356	78.256	1.39	7.77	559
1945	340	8,429,573	634,878,480	84,413	1.33	8.32	627
1946	339	9,364,009	725,475,237	89,109	1.29	8.76	679
1947	339	10,277,574	797,642,711	91,926	1.29	9.32	723
1948	341	10,182,051	769,650,340	95,239	1.32	8.91	673

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DOMESTIC SERVICE

HYDRO UTILITIES OF URBAN MUNICIPALITIES

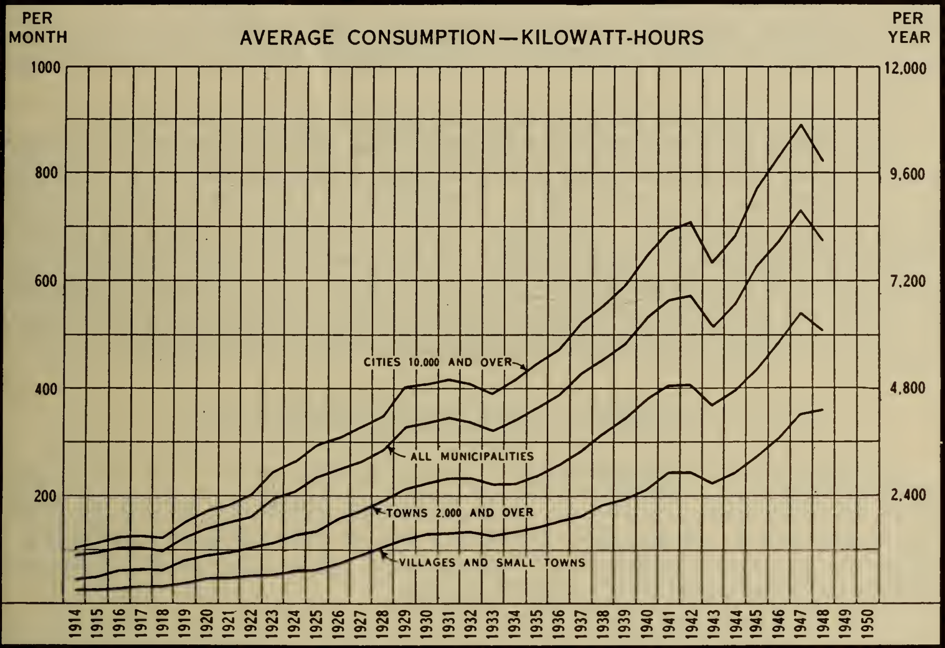

AVERAGE CONSUMPTION—KILOWATT-HOURS

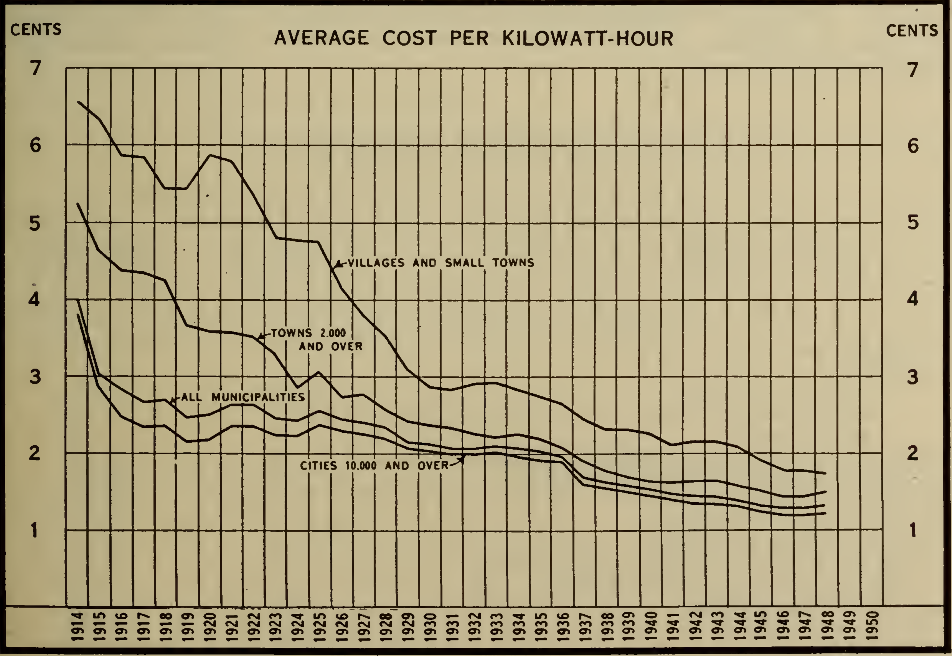

AVERAGE COST PER KILOWATT-HOUR

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

COMMERCIAL LIGHT SERVICE

HYDRO UTILITIES OF URBAN MUNICIPALITIES


AVERAGE CONSUMPTION—KILOWATT-HOURS


AVERAGE COST PER KILOWATT-HOUR

Financial Progress of Municipal Electrical Utilities

The consolidated balance sheet, published in Section X of this Report, shows a total plant value in Hydro utilities of $136,745,779 against which is a debenture balance debt of $4,545,745. However, some municipalities are accumulating a sinking fund to pay for debentures at maturity and at the end of 1949 this fund amounted to $569,498. If this sinking fund is deducted from the debenture balance debt the actual unpaid debenture debt would be $3,976,247 or about 3 per cent of the original value of the distribution systems.

Automatic reduction in the debenture debt, due to the annual principal or sinking fund payments being provided for out of revenue, and the remarkable accumulation of assets reflect a satisfactory financial condition of the Hydro utilities generally. Statement "A" of this Report shows the relation of assets to liabilities in municipalities. In 87 per cent of these municipalities the quick assets such as cash, bonds, accounts receivable and inventories exceed in value the total liabilities, including the debenture balance, and their Hydro utilities may fairly be considered as being out of debt.

SERVICE TO INDUSTRIES

Industrial power consumers who cannot satisfactorily be provided with power by municipal utilities or rural operating areas are served as direct system customers. Some 200 consumers are in this category, including a variety of industries in Southern Ontario and mines and paper companies mostly in the northern part of the Province.

The following is a summary of these customers grouped according to the type of industry and showing the average monthly load in each group during the fiscal year.

SUMMARY OF DIRECT CUSTOMERS—1949

Type of industry	Number of customers	Average monthly load kilowatts
1—Pulp and paper mills	15	144,054
2—Mining:		
(a) Gold and silver	62	87,481
(b) Base metals	8	82,588
(c) Non-metals	4	678
3—Quarrying, cement, basic building materials	16	16,490
4—Steel and electro-metallurgical industries	7	196,645
5—Abrasives and cyanamid	4	149,531
6—Chemical	9	24,702
7—Grain elevators and milling	6	8,177
8—Transportation services and communications	8	3,778
9—Government services and institutions	17	9,308
10—General manufacturing	33	34,029
11—Non-cost municipalities	6	18,989
12—Miscellaneous	7	1,142

A comparison of the total average monthly loads for 1949 with the total average monthly loads for 1948 shows an increase from 744,487 kilowatts to 777,592 kilowatts. Decreases in the power consumption of the electro-metallurgical, abrasive and cyanamid industries were offset by the additional power used in the cement and chemical industries which continue to expand their facilities to meet the increasing demand for their products.

During 1949 the producing gold and silver mines increased their loads by 5 per cent, due in part to the increased activity in silver mining.

Some 31 new and renewal agreements were executed by the Commission with system customers in 1949, also 29 amendments were made to provide for special conditions and 18 agreements were under negotiation at the end of the year.

The following tabulation shows the number of new and renewal agreements executed by the Commission with system customers in 1949, and the number of amendments which were necessary to provide for special conditions arising after the execution of the original agreements:—

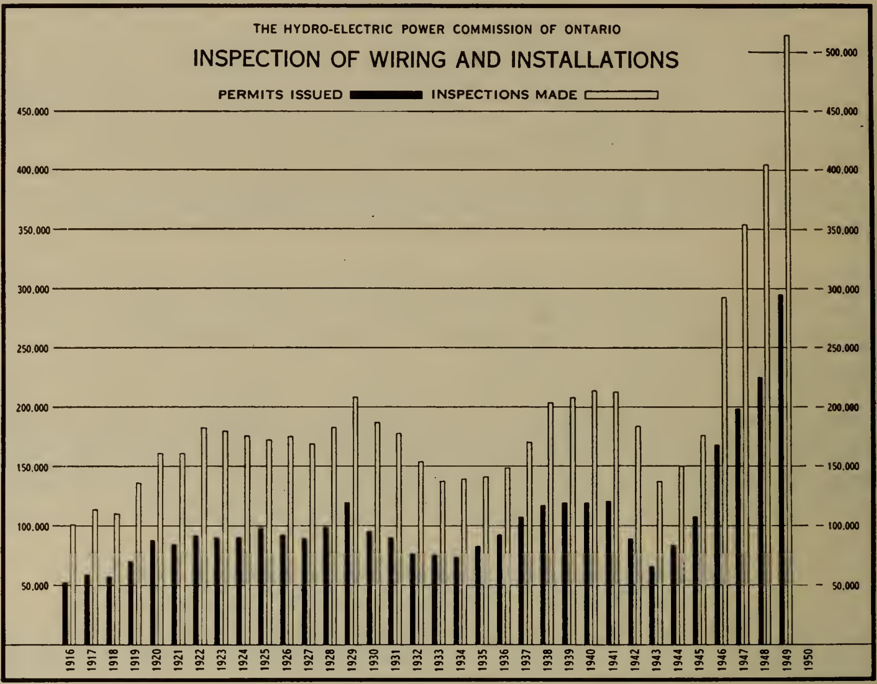
AGREEMENTS WITH SYSTEM CUSTOMERS IN 1949

	Industrial and paper companies		Mining companies	
	Number	Approximate load in kilowatts	Number	Approximate load in kilowatts
New agreements executed	9	19,000	3	750
Agreements renewed	14	114,000	5	3,000
Agreements amended	9	......	20	......
Agreements cancelled	1	......	2	......
Agreements under negotiation	7	55,900	6	17,600
Auxiliary power agreements under negotiation	5	......	..	......

As a service to industrial power consumers, 37 plants were surveyed in 1949 and recommendations made regarding power factor correction, selection of equipment, and the increasing of distribution efficiency. The managers of the utilities supplying these industrial plants co-operate closely in this work, realizing that the increased plant efficiencies are reflected in the increased efficiency of the utility's distribution system.

ELECTRICAL INSPECTION

Reflecting the general increase in construction throughout the Province, permits increased in number by 29 per cent and the number of electrical inspections made increased by 26 per cent, as compared with the previous year. At the end of the fiscal year the number of incompleted inspections increased by 36 per cent compared with the end of the previous period. The increase in permits issued has influenced this figure but difficulties of supply in the electrical industries further aggravated the situation. There was a 6 per cent increase in the staff of inspectors.



Six fires were directly attributed to defective electrical installations. There may have been other fires of electrical origin, but direct evidence was destroyed. Nine persons in Ontario unfortunately lost their lives by electrocution in 1949. This was a decrease of three as compared with 1948.

There was an increase of 5 per cent in the number of special inspections of electrical equipment by the Sales Control section arising from the use of electrical equipment not approved by the Canadian Standards Association.

The drafting of the Canadian Electrical Code, Part I, 5th Edition, is completed and awaits ratification by the Attorney-General's department. The new regulations will include The Hydro-Electric Power Commission of Ontario rules, regulations, and specifications governing installation of service lines, wiring on private property, and wiring in and upon buildings in rural districts.

SECTION IV

RURAL ELECTRICAL SERVICE IN ONTARIO

Province-wide Distribution to Rural Communities—Record Increase of Line Mileage and New Consumers—Immense Growth in Aggregate Load

IN KEEPING with the Commission's established rural policy of providing a province-wide distribution of electricity at a uniform rate and under similar conditions to each class of rural consumer, service was given to the largest number of consumers by means of the greatest extension of lines and distribution facilities in the history of rural distribution by the Commission.

Five-Year Plan Exceeded

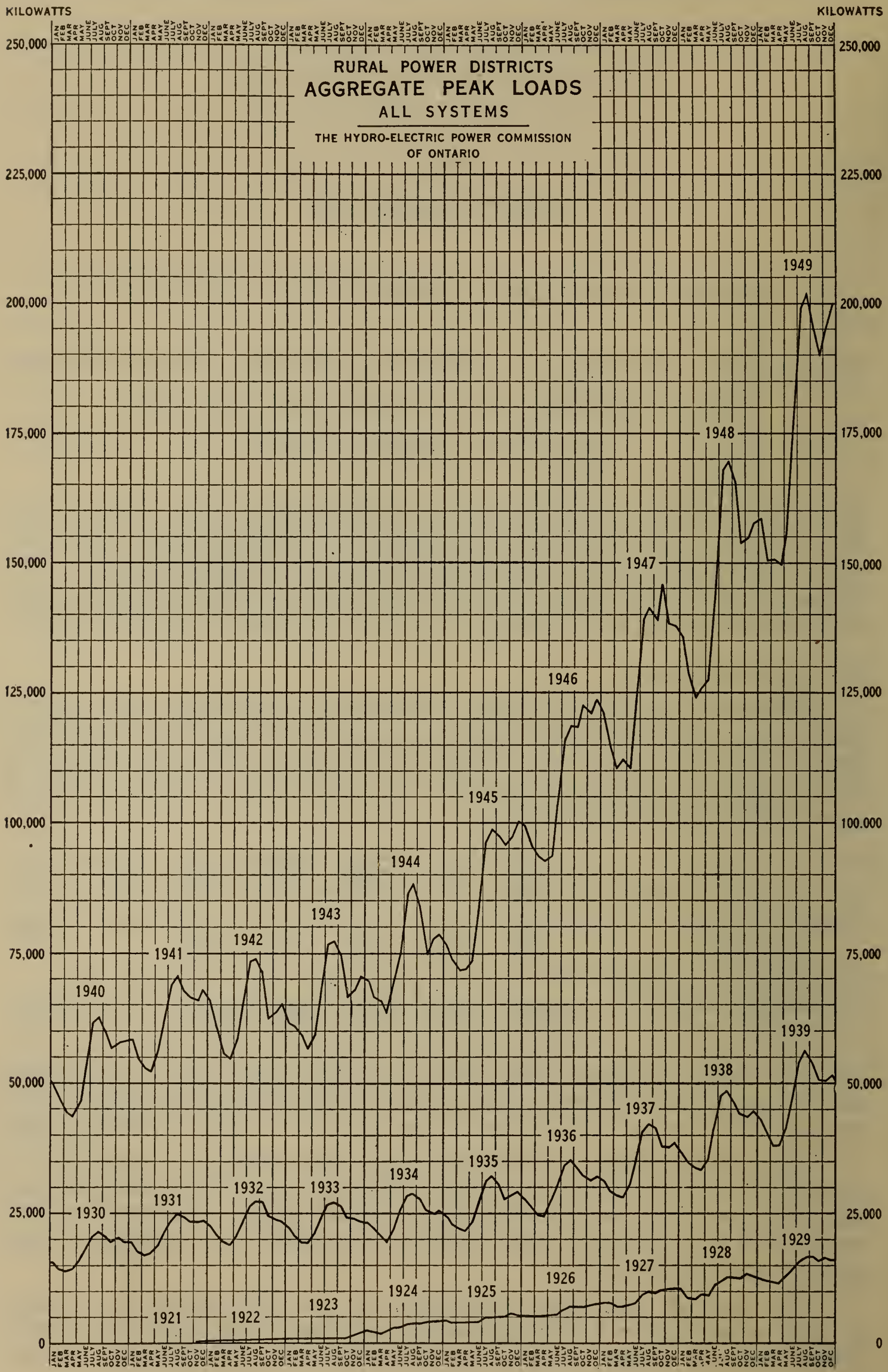
The Five-year Post-war Plan, commenced in 1946, to extend Hydro rural service more rapidly to meet the accumulated demands of the post-war period, has, in its fourth year, substantially exceeded the program laid out for the entire five years. It is, however, expected that this great rate of growth will gradually slow down.

	First year 1946	Second year 1947	Third year 1948	Fourth year 1949	Total four years	Fifth year 1950	Total five years
MILES OF LINE							
Five-year plan	1,135	2,151	1,532	1,357	6,175	1,154	7,329
Constructed	1,188	1,008	3,556	4,738	10,490	....	....
CONSUMERS TO BE SERVED							
Five-year plan	13,602	13,964	11,180	10,102	48,848	9,056	57,904
Actually served	16,802	20,691	26,036	35,206	98,735	....	....

The above tabulation shows that for the first four years the mileage of new lines constructed exceeded that planned for the four-year period by 70 per cent, and the number of consumers added exceeded the plan by 102 per cent.

Sales of electricity in rural operating areas continue to increase at a high rate. It is expected that a high rate of increase will be maintained in the next few years, because the large number of new consumers recently served will be increasing their electrical equipment and making a much greater use of the service.

The uniform rate plan inaugurated by the Commission on January 1, 1944 relied heavily for its success upon revenues to be expected from increased sales of energy. As the cost of construction and the price at which

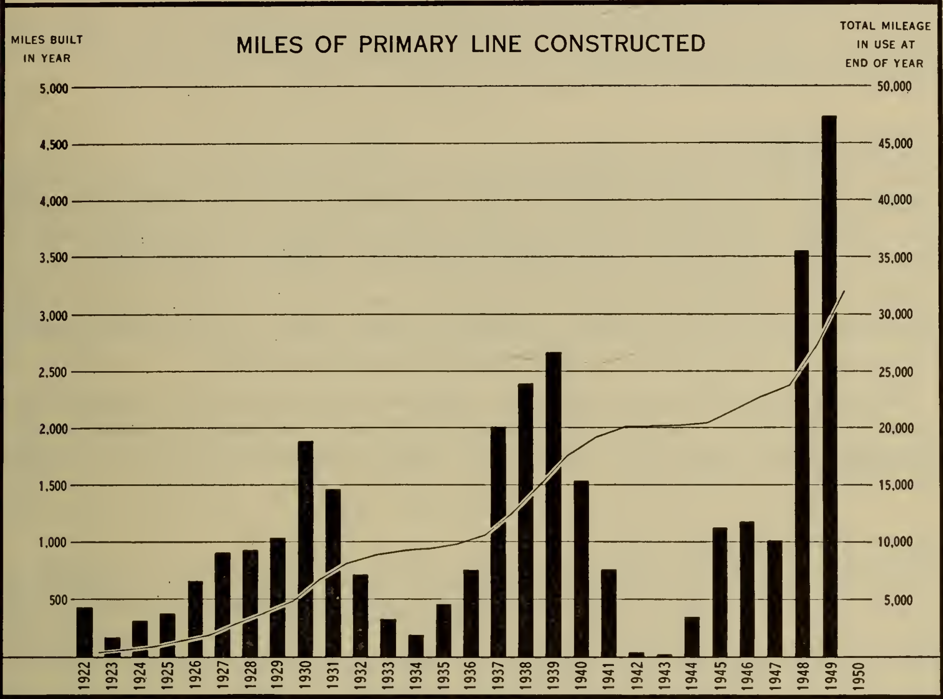


RURAL POWER DISTRICTS
AGGREGATE PEAK LOADS
ALL SYSTEMS

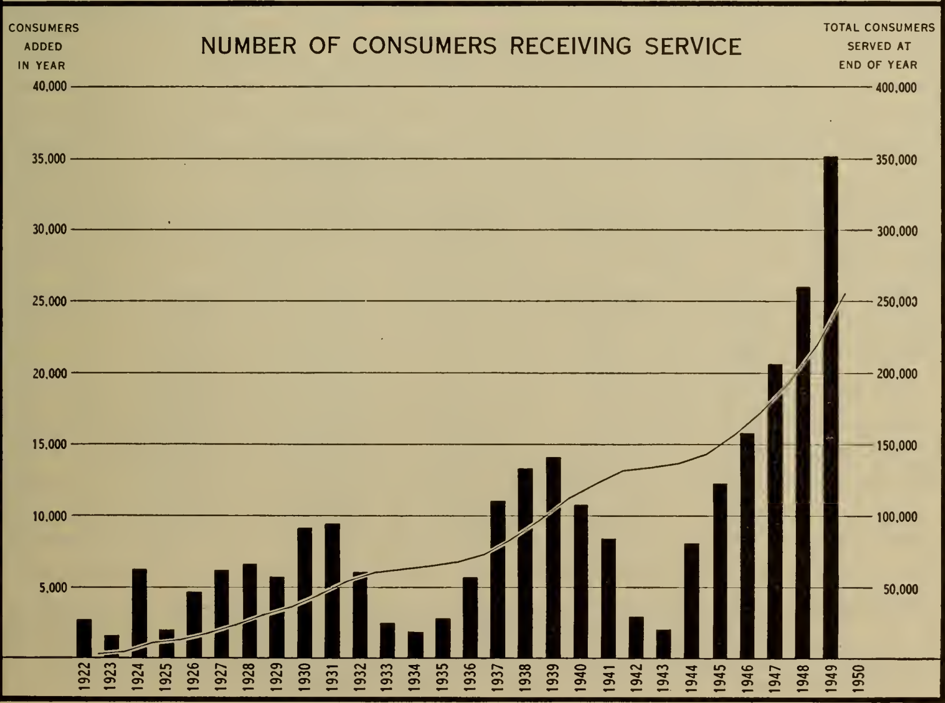
THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

RURAL POWER DISTRICTS



MILES OF PRIMARY LINE CONSTRUCTED



NUMBER OF CONSUMERS RECEIVING SERVICE

power may be delivered to the rural areas have substantially increased since World War II, it is imperative that consumers make the maximum economic use of the service supplied in order to maintain revenues that will meet the cost of supplying this service.

The revenues obtained during 1949 from all rural consumers were not sufficient to meet the costs to serve these consumers. The Commission is therefore making studies at the present time to remedy the situation.

Provincial Assistance

The amalgamation of rural districts and the unification of rates is made possible by the assistance given by the Province as part of its aid to agriculture. The extent and effect of the financial assistance in the distribution of power in rural operating areas should therefore be clearly understood.

The Government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power relates solely to the initial capital investment for distribution facilities in rural operating areas.

In addition to this grant-in-aid the Government further participates in the operation of the province-wide Hydro rural service by guaranteeing the Commission against loss due to the fixing of a maximum service charge or its reduction or removal.*

Status of Rural Service in 1949

At the end of 1949 the Commission was distributing electrical power in 96 rural operating areas, and in addition was constructing lines in five recently formed areas, not yet operating. In 1949 one new rural operating area was formed in the East Central region. In addition, to provide more efficient operation, two new areas were formed made up of parts of existing areas. Consumers in the 101 rural operating areas now total 262,859, of which 7,564 on partially constructed lines received or will receive service after November, 1949. The total power supplied during the month of August was 202,073 kilowatts (271,000 horsepower) and during the month of October was 189,949 kilowatts (254,600 horsepower). It will thus be seen that the average demand per consumer is over three-quarters of a kilowatt, or one horsepower. The consumers served through rural operating areas are situated in 480 organized townships, 2 improvement districts, 50 unorganized townships and 138 villages, police villages and small towns, and are served over a network of rural primary lines which aggregate 32,059 miles. In addition to the 530 organized townships served by rural operating areas, 10 townships are served jointly by rural operating areas and municipal voted areas.

At the end of 1948, 2,211 miles of rural primary lines then under construction were not completed. In addition applications had accumulated which would require the construction of 3,104 miles of additional lines. Thus the Commission was faced with the problem of constructing 5,315 miles as soon as possible. The actual increase in miles constructed during the year to serve consumers amounted to 4,738 miles. Even with this maximum endeavour 1,068 miles remained to be constructed during the following year.

On October 31, 1949, having surveyed the new applications received and the available points at which power could be supplied, the Commission decided on an additional construction program of 2,000 miles of new lines. Together with the lines not completed in 1949 the full program will amount to approximately 3,100 miles in 1950.

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*The Rural Power District Service Charge Amendment Act, 1944.

The net increase in the number of consumers actually served during 1949, after making allowance for cancellation and sale of lines in territories annexed to municipalities, was 35,206. The number of consumers added in 1949 was 35 per cent greater than the increase in 1948, which up to that time had been the greatest in rural history.

Since 1921 the Commission has been unable during two periods to maintain the rate of growth of rural electrification. The first period started about 1932, and was the result of the depression. The second occurred during the recent war when service was provided only to those farms which could aid the war effort by increased production. To illustrate this feature of rural service two graphs have been placed in this section showing for each year since 1921 the miles of primary line constructed and the number of consumers who received service.

The large increase in the number of consumers served has created a corresponding increase in power requirements. Notwithstanding certain power conservation measures in force early in 1949, the average aggregate peak load supplied to all rural Hydro consumers amounted to 170,569 kilowatts (228,800 horsepower), an increase of 18.4 per cent over 1948.

The maximum aggregate power sold in rural areas, which occurs during the summer months, amounted to 202,073 kilowatts in the month of August, 1949, which exceeded the previous year by 19.3 per cent.

The growth in load required to serve rural consumers is shown on the accompanying table of load growth during the past twelve years, and on the peak load diagram.

LOAD GROWTH—RURAL OPERATING AREAS

Year	Maximum aggregate peak load during year			Average aggregate peak load during year		
	horsepower	kilowatts	Increase for month	horsepower	kilowatts	Annual increase
			per cent			per cent
1938......	65,022	48,506	8.5	53,383	39,824	7.9
1939......	75,233	56,124	10.2	61,634	45,979	8.3
1940......	84,346	62,922	9.1	70,018	52,233	8.4
1941......	94,505	70,501	10.2	81,245	60,609	11.2
1942......	98,887	73,770	4.4	86,616	64,616	5.4
1943......	104,394	77,878	5.5	88,186	65,787	1.6
1944......	118,267	88,227	13.9	98,576	73,538	10.4
1945......	132,572	98,899	14.3	111,255	82,996	12.7
1946......	164,424	122,660	36.1	139,818	104,304	28.6
1947......	195,515	145,854	31.1	167,861	125,224	28.0
1948......	227,130	169,439	19.9	193,144	144,085	15.0
1949......	270,875	202,073	19.3	228,645	170,569	18.4

Aggregate peak load is the summation of peak loads of all rural operating areas for highest aggregate month. Increase indicates per cent over same month in previous year.

Average aggregate peak load is the summation of twelve monthly peak loads for each and all rural operating areas divided by twelve.

RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING THE YEAR 1949

System	Miles of primary line	Net increase in number of consumers			Power supplied in October 1949	Capital approved for extensions	
		Farm	Non-farm	Total		Total	Provincial grant-in-aid
SOUTHERN ONTARIO					k.w.	$	$
Western region.......	238.06	1,680	3,218	4,898	50,472	2,362,644	1,181,322
West Central region...	227.69	1,546	3,087	4,633	41,267	2,895,078	1,447,539
Niagara region.......	39.43	258	1,133	1,391	12,851	899,558	449,779
Toronto region.......	51.95	359	1,791	2,150	15,945	885,642	442,821
Georgian Bay region..	827.39	2,622	3,755	6,377	22,811	4,503,528	2,251,764
East Central region...	499.82	1,613	2,725	4,338	22,406	3,062,248	1,531,124
Eastern region.......	416.23	1,901	1,734	3,635	15,833	2,508,144	1,254,072
Southern Ontario totals.	2,300.57	9,979	17,443	27,422	181,585	17,116,842	8,558,421
THUNDER BAY							
Northwestern region..	88.25	258	226	484	1,619	598,658	299,329
NORTHERN ONTARIO PROPERTIES							
Northeastern region...	535.80	1,376	2,257	3,633	6,465	3,447,692	1,723,846
Northwestern region..	236.90	458	295	753	280	1,324,984	662,492
Northern Ontario Properties totals......	772.70	1,834	2,552	4,386	6,745	4,772,676	2,386,338
Totals..........	3,161.52	12,071	20,221	32,292	189,949	22,488,176	11,244,088

BARN HAY-CURING INSTALLATION

A motor-driven blower forces air through partially cured hay in the barn by a system of air ducts. It is claimed that the resulting hay is greener, leafier and has greater food value than field-dried hay

SUMMARY OF RURAL LINE CONSTRUCTION

Approved by the Commission from June 1, 1921 to October 31, 1949

Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital expenditure†	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
					$ c.	$ c.
SOUTHERN ONTARIO						
Western region.....	6,829.78	27,499	32,162	59,661	18,826,082.19	9,339,456.04
West Central region.	5,710.51	21,422	21,721	43,143	17,031,350.11	8,472,046.01
Niagara region.....	1,104.82	5,129	10,648	15,777	4,426,669.18	2,191,812.98
Toronto region.....	1,781.94	6,072	14,676	20,748	5,270,813.39	2,610,062.31
Georgian Bay region	6,328.86	16,364	28,933	45,297	17,005,191.41	8,379,544.64
East Central region.	4,806.42	13,303	22,725	36,028	13,053,347.70	6,492,582.05
Eastern region.....	3,965.11	12,019	12,491	24,510	11,056,731.32	5,500,517.05
SouthernOntario totals	30,527.44	101,808	143,356	245,164	86,670,185.30	42,986,021.08
THUNDER BAY Northwestern region	601.71	1,342	1,785	3,127	1,833,185.91	916,572.95
NORTHERN ONTARIO PROPERTIES						
Northeastern region.	1,626.25	3,365	9,831	13,196	6,512,492.12	3,213,837.57
Northwestern region	371.98	691	681	1,372	1,687,235.78	842,938.80
Northern Ontario Properties totals....	1,998.23	4,056	10,512	14,568	8,199,727.90	4,056,776.37
Totals........	33,127.38*	107,206	155,653	262,859	96,703,099.11	47,959,370.40

*These totals include 1,068.12 miles of primary line under construction on October 31, 1949 and service to 7,564 (consisting of 4,428 farm and 3,136 non-farm) new consumers not completed until after the end of the fiscal year.

†During previous years the figures published in this statement represented the summation of all estimates since the beginning of rural operation. As the Commission was able in a large number of cases to construct these lines for a sum lower than the original estimate, it is now deemed advisable to show the actual cost for all years 1921 to 1949. Included in these figures is an estimate of the cost of completing lines partially constructed in 1949.

RATES FOR RURAL HYDRO SERVICE

In Appendix III to the Report will be found the rates to consumers in rural power districts in the year 1949. These rates, substantially the same as in recent years, will be adjusted in 1950 to meet the higher cost of providing service.

OUTSIDE LIGHTING ON THE FARM
Greatly facilitates after-dark chores, gives protection, and lessens the chance of accident

RURAL SERVICE STATISTICS 1944 TO 1948

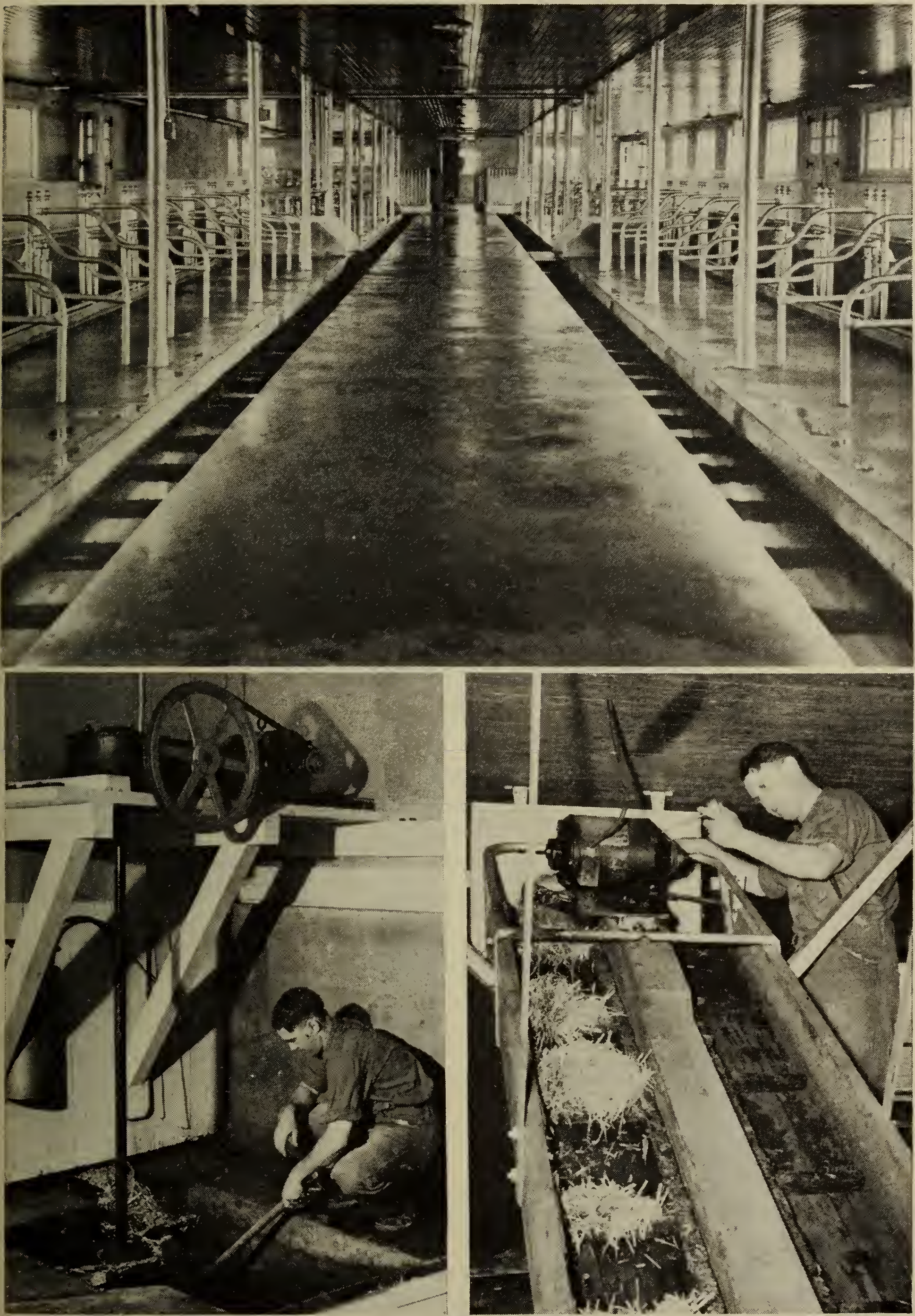
Service	Year	Annual revenue	Energy consumption	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption
		$ c.	kw-hrs.		cents	$ c.	kw-hrs.
Farm service........	1944	2,396,508.94	113,706,660	59,639	2.11	3.53	167
	1945	2,606,431.15	137,194,727	65,141	1.90	3.48	183
	1946	3,072,921.16	176,460,859	72,285	1.74	3.72	214
	1947	3,430,307.61	206,420,795	78,668	1.66	3.79	228
	1948	3,942,730.96	242,291,332	87,530	1.63	3.95	243
Hamlet service......	1944	1,937,102.28	82,106,734	56,130	2.36	2.95	125
	1945	2,027,283.82	92,056,781	58,867	2.20	2.93	133
	1946	2,345,531.81	118,287,655	66,177	1.98	3.12	158
	1947	2,754,265.69	150,411,043	74,879	1.83	3.24	178
	1948	3,279,149.63	185,225,412	85,598	1.77	3.40	192
Commercial service..	1944	341,646.50	15,010,213	8,262	2.28	3.51	154
	1945	381,570.09	18,915,619	8,870	2.02	3.72	184
	1946	468,391.94	25,069,924	10,315	1.87	4.07	218
	1947	572,625.58	33,304,037	11,851	1.72	4.30	250
	1948	706,949.62	41,665,764	13,589	1.70	4.63	273
Summer service.....	1944	435,622.43	11,859,662	19,291	3.67	1.93	53
	1945	473,887.53	14,250,142	20,947	3.33	1.96	59
	1946	555,833.10	18,352,748	24,244	3.03	2.05	68
	1947	632,102.22	21,116,561	27,182	2.99	2.04	68
	1948	722,951.54	24,440,522	31,088	2.96	2.07	70

*It may be observed that the number of consumers reported here does not agree with those shown in other sections of the Annual Report of the Commission. This is due to the fact that the figures given here represent consumers actually billed, but do not include power or special contracts; whereas, elsewhere in the Report the tables show the number of contracts executed to the end of the fiscal year. In many cases service is not given until the following year.

1944 Estimated—due to reclassification during the year.

1944-5-6 Figures are for each fiscal year ended October 31st.

1947 and 1948 figures represent total billings to each consumer during the previous twelve months. Therefore, any increase or decrease in a consumer's demand after the last billing period is not reflected in this statement.



MODERN BARN-CLEANER INSTALLATION

In the upper picture the cleaner is shown installed in the gutter. The type illustrated consists of an endless chain to which scrapers are fastened at intervals. The chain and scrapers are operated by an electric motor and gear box as shown in the lower left-hand picture. The manure is discharged to a pit from which it is removed by an elevator, shown in lower right-hand picture, to the manure spreader

HAMLET AND HOUSE LIGHTING SERVICE

Classified as 1B, 1C and 2A from 1928 to 1943

Year	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption.
	$ c.	kw-hrs.		cents	$ c.	kw-hrs.
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

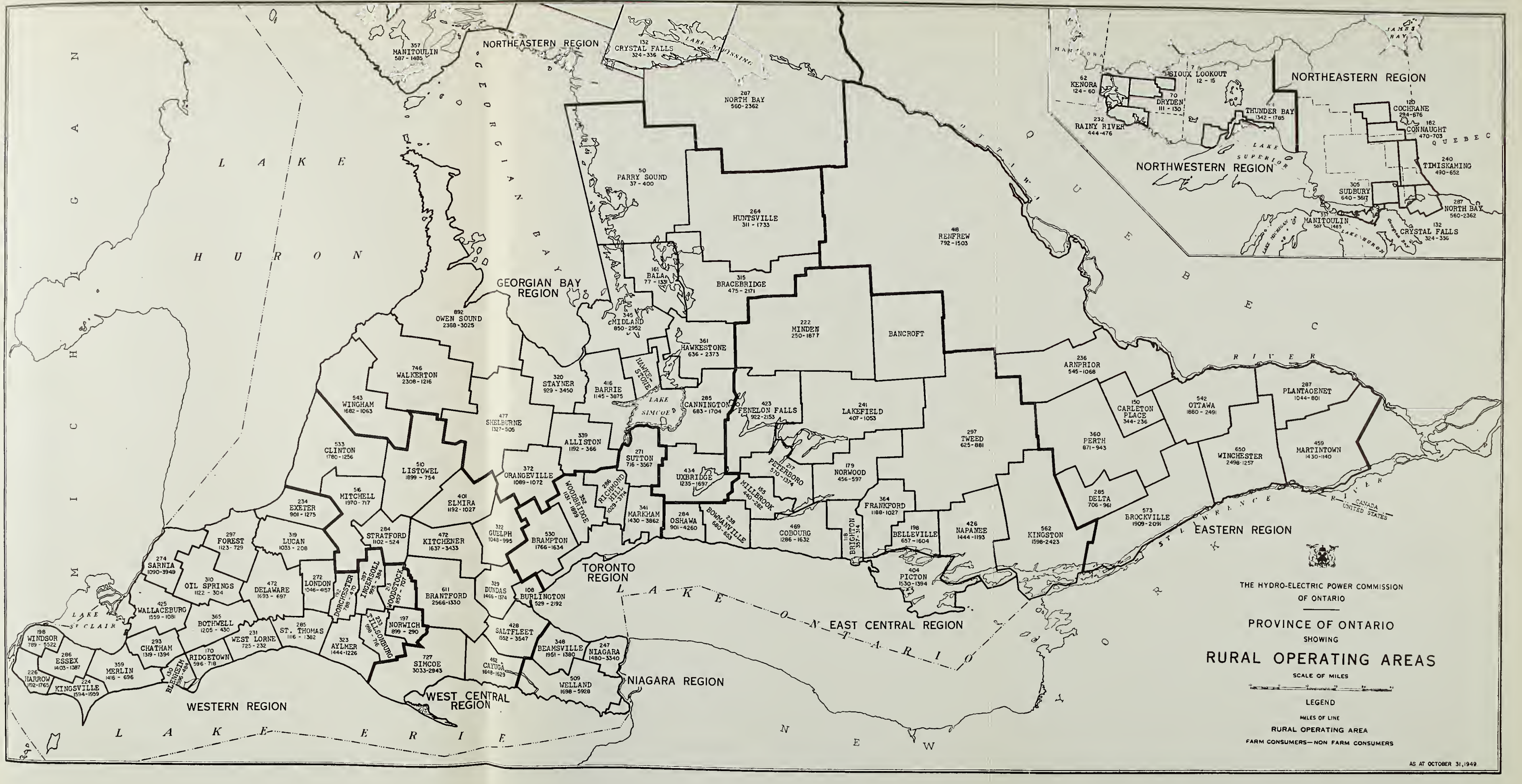
FARM SERVICE

Classified as 2B, 3, 4, 5, 6A, 6B, 7A and 7B from 1928 to 1943

Year	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption.
	$ c.	kw-hrs.		cents	$ c.	kw-hrs.
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

* See footnote to table on page 58.

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per consumer. Actually there was a great increase in the use of electricity by nearly all individual Hydro consumers and a corresponding decrease to each consumer in the average cost per kilowatt-hour. But due to the tremendous growth at that time in new consumers, who for the first few years were not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new consumers when averaged with the increased use of the older consumers produced per consumer averages which obscured the true trends of individual growth in use and individual reductions in costs.



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

PROVINCE OF ONTARIO
SHOWING
RURAL OPERATING AREAS

SCALE OF MILES

LEGEND

MILES OF LINE
RURAL OPERATING AREA
FARM CONSUMERS—NON FARM CONSUMERS

AS AT OCTOBER 31, 1949

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949
Constructed and Under Construction

SOUTHERN ONTARIO SYSTEM

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Western Region									
Aylmer..........	323.87	1,444	857	175	187	7	2,670	2.85	4
Blenheim.........	130.80	596	289	58	132	5	1,080	1.70	1
Bothwell.........	365.72	1,205	281	131	1	17	1,635	4.05	27
Chatham.........	293.83	1,319	1,226	146	......	22	2,713	7.34	11
Delaware.........	472.89	1,693	500	192	......	5	2,390	3.95	26
Dorchester.......	192.47	788	368	89	2	11	1,258	1.90	2
Essex............	286.77	1,403	755	120	504	8	2,790	2.65	8
Exeter...........	234.46	901	472	114	681	8	2,176	8.71	6
Forest...........	297.56	1,123	142	80	501	6	1,852	1.10	5
Harrow..........	226.98	1,192	614	106	1,041	4	2,957	3.33	7
Ingersoll.........	287.46	995	307	70	2	5	1,379	2.06	12
Kingsville........	224.77	1,594	758	119	1,071	11	3,553	1.97	8
London..........	272.34	1,046	3,892	237	4	24	5,203	1.83	4
Lucan............	319.58	1,033	124	82	......	2	1,241	11.37	3
Merlin...........	359.02	1,416	347	144	199	6	2,112	12.50	25
Norwich..........	197.18	899	226	56	......	8	1,189	0.40	2
Oil Springs.......	310.37	1,122	183	116	......	5	1,426	2.72	19
Ridgetown........	170.78	596	232	51	431	4	1,314	0.26	3
St. Thomas.......	285.87	1,116	1,223	143	9	7	2,498	1.96	10
Sarnia...........	274.27	1,090	2,969	222	751	7	5,039	4.22	21
Tillsonburg.......	233.91	998	580	121	......	15	1,714	....	1
Wallaceburg......	425.46	1,559	708	188	171	14	2,640	13.90	107
West Lorne.......	231.34	725	144	55	30	3	957	2.05	12
Windsor..........	198.57	789	5,159	332	......	31	6,311	2.16	....
Woodstock.......	213.51	857	583	120	1	3	1,564	0.33	1
Total Western Region.........	6,829.78	27,499	22,939	3,267	5,718	238	59,661	95.31	325
West Central Region									
Brantford........	611.91	2,566	1,103	201	14	12	3,896	11.45	18
Burlington........	108.49	529	2,028	111	29	24	2,721	1.00	10
Cayuga..........	462.26	1,648	725	204	675	25	3,277	14.95	30
Clinton...........	533.69	1,780	691	196	364	5	3,036	9.91	68
Dundas..........	329.28	1,466	1,226	136	......	12	2,840	3.85	31
Elmira...........	401.68	1,192	816	159	34	18	2,219	3.60	29
Guelph...........	322.99	1,048	862	106	17	10	3,043	4.80	35
Kitchener........	472.99	1,637	2,929	301	165	38	5,070	5.87	16
Listowel.........	510.02	1,899	552	194	2	6	2,653	4.57	93
Mitchell..........	516.41	1,970	535	173	......	9	2,687	2.70	2
Saltfleet..........	428.58	1,552	2,981	283	251	32	5,099	9.65	39
Simcoe...........	727.87	3,033	1,732	291	908	12	5,976	9.55	15
Stratford.........	284.34	1,102	412	102	1	9	1,626	2.90	....
Total West Central Region.........	5,710.51	21,422	16,592	2,457	2,460	212	43,143	84.80	386

*Miles of line and total consumers, included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949

Constructed and Under Construction

SOUTHERN ONTARIO SYSTEM—Continued

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Niagara Region									
Beamsville	348.08	1,951	1,029	183	145	23	3,331	12.20	5
Niagara	247.22	1,480	2,932	195	184	29	4,820	6.46	7
Welland	509.52	1,698	4,419	383	1,075	51	7,626	22.64	28
Total Niagara Region	1,104.82	5,129	8,380	761	1,404	103	15,777	41.30	40
Toronto Region									
Brampton	530.70	1,766	1,176	177	266	15	3,400	6.79	22
Markham	341.69	1,430	2,814	225	782	41	5,292	5.91	20
Richmond Hill	286.12	1,029	3,218	214	255	27	4,743	1.61	17
Sutton	271.06	716	1,055	158	2,339	15	4,283	3.30	44
Woodbridge	352.37	1,131	1,558	210	102	29	3,030	6.45	14
Total Toronto Region	1,781.94	6,072	9,821	984	3,744	127	20,748	24.06	117
Georgian Bay Region									
Alliston	339.93	1,192	262	85	13	6	1,558	9.02	37
Bala	161.77	77	373	65	892	1	1,408	2.05	37
Barrie	416.23	1,145	1,252	190	2,426	7	5,020	2.59	8
Bracebridge	315.81	475	598	119	1,452	2	2,646	2.60	31
Cannington	285.83	683	416	103	1,183	2	2,387	8.32	41
Hawkestone	361.41	636	653	125	1,592	3	3,009	17.93	60
Huntsville	264.91	311	915	165	642	11	2,044	18.17	131
Midland	345.02	850	557	110	2,283	2	3,802	15.64	132
Orangeville	372.75	1,089	692	190	185	5	2,161	5.63	37
Owen Sound	892.33	2,388	1,377	387	1,256	5	5,413	19.72	236
Parry Sound	50.73	37	310	33	57	......	437	1.80	9
Shelburne	477.17	1,327	359	125	21	......	1,832	2.00	19
Stayner	320.64	929	608	134	2,705	3	4,379	3.89	50
Uxbridge	434.28	1,235	829	175	690	3	2,932	8.94	19
Walkerton	746.86	2,308	633	258	319	6	3,524	2.00	6
Wingham	543.19	1,682	552	220	288	3	2,745	0.96	27
Total Georgian Bay Region	6,328.86	16,364	10,386	2,484	16,004	59	45,297	121.26	880

*Miles of line and total consumers, included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949

Constructed and Under Construction

SOUTHERN ONTARIO SYSTEM—Continued

East Central Region

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Belleville	198.52	657	1,423	155	17	9	2,261	5.03	11
Bowmanville	238.17	680	469	94	87	3	1,333	....	24
Brighton	118.96	357	133	24	155	2	671	10.45	33
Cobourg	469.62	1,286	845	192	592	3	2,918	3.48	59
Fenelon Falls	423.54	922	403	131	1,615	4	3,075	8.75	137
Frankford	364.82	1,188	693	141	193	......	2,215	7.51	61
Kingston	562.91	1,598	1,642	346	421	14	4,021	31.03	190
Lakefield	241.40	407	451	111	489	2	1,460	24.78	154
Millbrook	155.83	440	190	53	39	......	722	4.29	50
Minden	222.83	250	941	203	730	3	2,127	22.33	114
Napanee	426.16	1,444	826	234	127	6	2,637	10.08	51
Norwood	179.95	456	221	59	314	3	1,053	7.45	44
Oshawa	284.39	901	3,671	258	303	28	5,161	6.10	29
Peterboro	217.07	570	911	119	338	6	1,944	6.18	56
Picton	404.32	1,530	823	204	363	4	2,924	1.18	11
Tweed	297.23	625	522	122	236	1	1,506	8.56	37
Bancroft	0.70	......	......	......	......	......	....	....	....
Total East Central Region	4,806.42	13,311	14,164	2,446	6,019	88	36,028	157.20	1,061

Eastern Region

Rural operating area	Miles of line	Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Arnprior	236.98	545	720	165	169	14	1,613	12.56	166
Brockville	573.73	1,909	1,222	334	522	13	4,000	0.10	281
Carleton Place	150.06	344	102	52	81	1	580	5.14	53
Delta	285.99	706	451	134	376	......	1,667	1.34	18
Martintown	459.09	1,430	799	216	120	5	2,570	3.44	113
Ottawa	542.00	1,880	1,936	358	170	27	4,371	4.25	75
Perth	360.33	871	449	138	352	4	1,814	30.34	195
Plantagenet	287.66	1,044	640	145	13	3	1,845	0.79	12
Renfrew	418.91	792	1,157	248	81	17	2,295	10.32	162
Winchester	650.36	2,498	917	300	31	9	3,755	0.10	3
Total Eastern Region	3,965.11	12,019	8,393	2,090	1,915	93	24,510	68.38	1,078

THUNDER BAY SYSTEM

Northwestern Region

Rural operating area	Miles of line	Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Thunder Bay	601.71	1,342	1,253	191	332	9	3,127	16.32	188

*Miles of line and total consumers, included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949

Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
NORTHERN ONTARIO PROPERTIES									
Northeastern Region									
Cochrane.........	120.90	294	621	53	2	......	970	1.50	327
Connaught........	182.88	470	537	111	44	11	1,173	9.70	66
Crystal Falls......	132.17	324	277	59	......	......	660	16.91	660
Manitoulin........	357.51	587	941	294	241	9	2,072	90.08	239
North Bay........	287.10	560	1,699	213	442	8	2,922	52.36	307
Sudbury..........	305.21	640	3,127	231	245	14	4,257	85.30	393
Timiskaming......	240.48	490	463	109	74	6	1,142	80.34	662
Northwestern Region									
Dryden..........	70.00	111	94	35	1	......	241	15.60	241
Kenora...........	62.20	124	42	6	12	......	184	39.40	184
Rainy River......	232.03	444	343	129	......	4	920	68.30	383
Sioux Lookout....	7.75	12	7	......	8	......	27	....	27
Total Northern Ontario Properties	1,998.23	4,056	8,151	1,240	1,069	52	14,568	459.49	3,489

SUMMARY

Region	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Western..........	6,829.78	27,499	22,939	3,267	5,718	238	59,661	95.31	325
West Central.....	5,710.51	21,422	16,592	2,457	2,460	212	43,143	84.80	386
Niagara..........	1,104.82	5,129	8,380	761	1,404	103	15,777	41.30	40
Toronto..........	1,781.94	6,072	9,821	984	3,744	127	20,748	24.06	117
Georgian Bay.....	6,328.86	16,364	10,386	2,484	16,004	59	45,297	121.26	880
East Central......	4,806.42	13,311	14,164	2,446	6,019	88	36,028	157.20	1,061
Eastern..........	3,965.11	12,019	8,393	2,090	1,915	93	24,510	68.38	1,078
Southern Ontario Totals.........	30,527.44	101,816	90,675	14,489	37,264	920	245,164	592.31	3,887
Northwestern (Thunder Bay)..	601.71	1,342	1,253	191	332	9	3,127	16.32	188
Northwestern (N.O.P.).......	371.98	691	486	170	21	4	1,372	123.30	835
Northeastern.....	1,626.25	3,365	7,665	1,070	1,048	48	13,196	336.19	2,654
Total all regions...	33,127.38	107,214	100,079	15,920	38,665	981	262,859	1,068.12	7,564

*Miles of line and total consumers, included in preceding columns.

SECTION V

FREQUENCY STANDARDIZATION

A DECISION to standardize the frequency in the Niagara division of the Southern Ontario system at 60 cycles, to conform to the frequency generally prevailing elsewhere in Canada and throughout the United States, was recommended in 1948 by The Hydro-Electric Power Commission of Ontario, approved by the Provincial Government and endorsed by the Ontario Municipal Electric Association. The preliminary steps to organize a department of the Commission for this work were taken in August 1948. In 1949 organization continued and the task of converting consumer frequency-sensitive equipment was commenced.

MOBILE WORKSHOPS EXPEDITE THE WORK OF FREQUENCY STANDARDIZATION

A contract was executed with Canadian Comstock Company Limited for the initial inventory and actual conversion of consumers' equipment in specified areas, all under the supervision of the Commission's engineers. The areas in which this work is being undertaken are the townships of East York and Scarborough, the cities of Sarnia and London and certain sections in the Hamilton district. The actual work under the contract was started on January 18, 1949.

The change-over of the first consumers took place on May 18, 1949, in East York township and since that date the work has proceeded as rapidly as personnel, equipment and materials could be obtained. At the end of October 1949, 2,679 consumers had had their equipment converted. This comprised 10,166 items equivalent to a connected load of 4,317 horsepower. In addition inventories had been completed for nearly 500,000 horsepower of connected load, which includes the equipment of nearly 25,000 consumers of domestic, commercial and industrial classes.

The contractor's head office for the frequency standardization work was established at St. Catharines, where large warehouses and office space were available. The contractor's first field office was established in Scarborough township. Field offices and warehouses were also established in London, Sarnia and Hamilton.

The Commission's main warehouses for the storage of standardization material are being constructed at Islington, near the new Kipling transformer station in Etobicoke township. Here by the end of October 1949 the Commission had three large warehouse buildings completed, providing some 90,000 square feet of storage space. An office building and additional storage buildings, a motor-rewinding shop, and meter rebuilding and stores shop are being erected.

Equipment, including frequency converters, portable machine shops, field offices on trailers, and other vehicles and standardization material, costing between eight and nine million dollars has been ordered, of which equipment costing about three and one-half million dollars has been delivered.

To facilitate efficient operations in the field, and to maintain liaison with the regional offices, local utilities, consumers, and the contractor, Frequency Standardization Division area offices were established in Scarborough, Sarnia and London areas, each under the supervision of an area project manager. Posted to these offices were sections of the Consumer Service department, Planning department, Conversion Engineering department, etc.

Conversion of Commission and Municipal Equipment

The Electrical Engineering department will carry out the conversion of the Commission's facilities, and upon request render assistance to the municipalities.

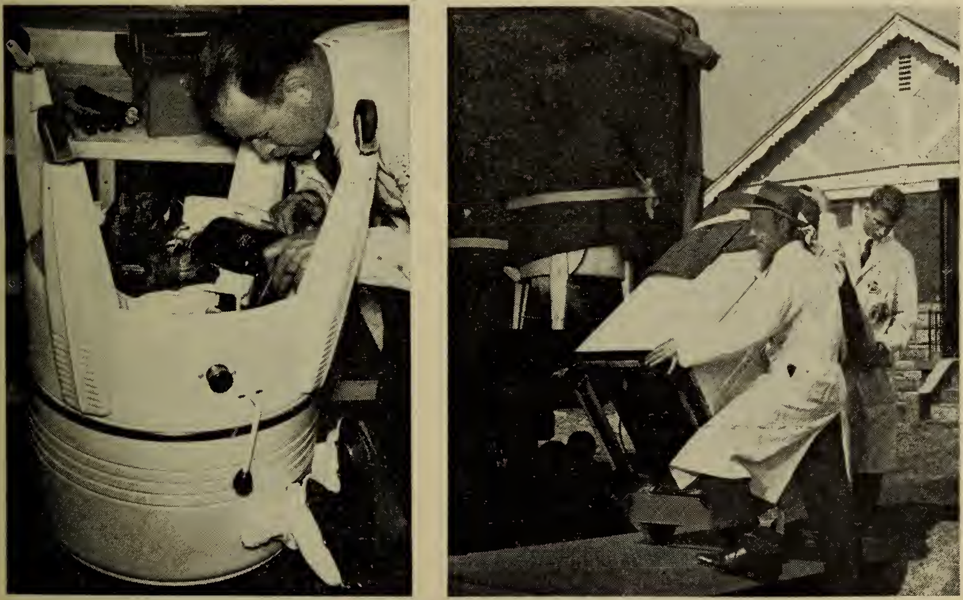
Based on frequency standardization requirements the Electrical Engineering department will provide detailed plans for the change-over of the distributing system, erect and remove temporary transmission lines and stations, and have available mobile substations, frequency-changers, diesel-driven generators, regulators and transformers to provide temporary power during the change-over of consumer equipment.

As of October 31, 1949 some 150 municipalities have requested assistance in standardizing their systems.

The following table summarizes the progress on frequency standardization work in all areas up to October 31, 1949.

Class	Number of consumers		Inventoried			Standardized		
	Estimate	Released for inventory	Consumers	hp	Items	Consumers	hp	Items
Domestic	174,541	43,847	22,109	12,620	71,766	2,494	1,501	8,640
Commercial	16,590	2,763	1,473	4,334	10,897	157	340	827
Power	2,360	1,381	1,161	480,448	83,468	28	2,476	699
Total	193,491	47,991	24,743	497,402	166,131	2,679	4,317	10,166

A résumé of the Division's operation will explain the headings used in the table. The Frequency Standardization division estimates the number of consumers of all classes in the 25-cycle area whose equipment is to be standardized and detailed system data are compiled by survey of each consumer. This information is then released to the contractor who makes an inventory of each consumer's equipment and thereby accumulates the total consumers, items, and corresponding connected horsepower. These data are processed to determine the materials required, following which the necessary requisitions are placed with the Frequency Standardization division, which is responsible for having the material on hand prior to the cut-over. The Division arranges the details of the cut-overs and on each cut-over day the contractor changes the equipment in the homes, offices and factories to operate at the standard frequency of 60-cycles.



FREQUENCY STANDARDIZATION

Standardization of domestic equipment is performed with up-to-date equipment and transportation of domestic appliances is done with great care using specially designed trucks

SECTION VI

ENGINEERING AND CONSTRUCTION

Record Year in Construction Activities—Power Developments and Facilities Proceeding Rapidly—Provision of Emergency Steam Plants

THE construction of the large power developments continued unabated and the former all-time peak of construction activities reached in 1948 was exceeded in 1949.

Construction of the power developments at Des Joachims, La Cave, Chenaux, Tunnel and Pine Portage is proceeding rapidly. Though the original dates for completion of these projects have been advanced from time to time, the Engineering and Construction divisions are confident that the earlier dates will be met.

The extensive transmission lines and terminal facilities required to incorporate these new power sources into the existing systems will be ready to transmit the new power as it becomes available.

In addition to the provision of these major power facilities, overloaded conditions are being remedied by increasing capacities of transmission, transformation and distribution equipment throughout the Province.

Owing to the magnitude of the over-all program, it was found advantageous to employ consultants for the planning, engineering and designing of some projects, including the Chenaux hydro-electric development, the J. Clark Keith and the Richard L. Hearn generating stations at Windsor and Toronto respectively and five emergency steam-electric generating stations. Construction of these plants, the Tunnel hydro-electric development and the McConnell Lake dam of the Des Joachims development has been undertaken by general contractors.

The Commission's large construction staff was employed at Des Joachims, Pine Portage and La Cave hydro-electric developments, in the construction

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The following abbreviations are used as required in this Section of the Annual Report:

hp	horsepower—unit of capacity
kw	kilowatt (s)—unit of capacity
kwhrs	kilowatt-hours—unit of energy
kv	kilovolt (s)
kva	kilovolt-ampere (s)

of the transmission, transformation and distribution facilities and on the rural program. The supervision of the whole program is the responsibility of the engineering staff of the Commission.

At the end of 1949 there were several hundred separate station and transmission line jobs under construction, ranging from small projects costing one or two thousand dollars to high-voltage lines and large frequency-changer and transformer stations and power developments costing several million dollars.

A typical example of the diversity encountered in line work is the construction, now under way, of the 230,000-volt circuits leading from the Des Joachims development on the Ottawa river. Two single circuits and one double circuit, carried on three steel-tower lines, are being constructed to Minden together with a telephone line carried on wood poles on the same right-of-way. From Minden the lines branch off. Two circuits lead to the Kipling transformer station near Toronto. Then a double-circuit line runs from Kipling via Burlington to Mount Hope. The other branch from Minden is a double-circuit line running to the Westminster transformer station near London. Altogether about 372 miles of double-circuit and 344 miles of single-circuit lines are being constructed.

The route selected for the right-of-way from the Des Joachims development to Minden was through broken country, heavily forested, where no roads existed. It was necessary to construct a road adjacent to the right-of-way as soon as possible, to assist in clearing the right-of-way, for use in the haulage of steel-tower materials, cable, camp supplies and for the transportation of men. The road was constructed during 1949 and, among other items, steel for 1,384 towers was hauled over it. A right-of-way 450 feet wide involved clearing about 5,000 acres of land and incidentally the cutting of some six million feet of softwood lumber as well as large quantities of hardwood, all of which were made available for other projects. The road itself runs from the highway at Haliburton through one hundred miles of uninhabited country to the Ottawa river.

The Construction division is constantly investigating new methods and machines to reduce construction costs and in these efforts can report great success. Another function of the division is the equipping of the various projects with adequate supplies of construction plant and tools and the provision of portable buildings and equipment for the camps, including both living and recreational requirements. The division also operates a salvage section, which reconditions supplies and obsolete materials; these not only effect large savings but also prove valuable in speeding Commission projects when shortages of critical materials occur.

Supply of Material and Equipment

At the beginning of the calendar year 1949 a definite easing in supply conditions became noticeable. Over the previous four years a short supply of materials and equipment coincided with the Commission's post-war construction program and although the needs of the engineering, construction and operation divisions have at all times been met, the costs have been heavy owing to the high prices that invariably accompany a great demand for a limited supply.

The improvement in availability of supplies was accompanied by some stabilization in prices. The major items of material and equipment required for the construction program have now either been obtained or their delivery assured. The near completion of the new central stores at Islington, with its accumulation of extensive reserve stocks, is helping to stabilize supplies, and it appears that for the near future the Commission's main difficulties with respect to supply have been overcome.

System Planning

The basic work of the System Planning department is to determine new sources of power and plan for their co-ordination into the various systems. In 1949 it included making plans for incorporation of the authorized thermal generating stations into the Southern Ontario system. Planning of the 230-kv, 60-cycle network and associated facilities was completed. Basic area plans were prepared for the initial frequency standardization projects, and means for providing a 60-cycle supply to the areas to be converted were determined. Supplies to new customers were arranged to fit in with the overall plans for each area. The development of plans for subtransmission networks continued, and studies were made of the need for suitable locations for new step-down transformer stations to serve municipalities and direct customers of the Commission. The development of a practical scheme of single-pole reclosing of high-voltage circuit-breakers was a major project. This was undertaken to provide a means for economically improving service security and protecting system resources.

DES JOACHIMS POWER DEVELOPMENT, OTTAWA RIVER
Powerhouse section of main dam with penstocks behind. Progress as recorded in November 1949

PROGRESS ON POWER DEVELOPMENTS

Excellent progress was made in 1949 on five major hydro-electric developments; one storage dam was completed, two large steam-electric stations were started and certain small emergency steam-electric stations were put into operation.

In the following paragraphs the main features of the developments are listed and progress made during 1949 is summarized.

SOUTHERN ONTARIO SYSTEM

DES JOACHIMS GENERATING STATION—OTTAWA RIVER

Situation—About 38 miles upstream from Pembroke.

In service—First four units in the Summer of 1950, all remaining units by early 1951.

Capacity—Eight units 358,000 kilowatts (480,000 horsepower), 60 cycles.

Head—130 feet.

Lengths—Main dam 2,400 feet, auxiliary dam 1,300 feet, McConnell Lake dam 1,600 feet.

Estimated cost—$75,775,000.

The main dam was finally closed on September 15, 1949 and the whole flow of the river was diverted through the McConnell Lake dam and then via McConnell lake to return to the main channel of the Ottawa river near Des Joachims village. The consequent dewatering below the main dam permitted a start to be made on the excavation of the tailrace, which extends from the downstream side of the powerhouse for about 7,200 feet and conveys the outflow from the powerhouse to the Deep River section of the Ottawa river.

The bulk of the concrete has been poured in the main dam, the major part of which is now at its final crest level and about one-half of the concrete has been placed in the powerhouse substructure. Penstock erection was completed for units 1 and 2 and was proceeding on the remaining units. Concrete pouring was completed for the auxiliary dam. The closure of the sluices in the McConnell Lake dam commenced on November 3, 1949 and the water level upstream was being gradually raised as the closure proceeded. Some 2,600 men were engaged on the development.

CHENAUX GENERATING STATION—OTTAWA RIVER

Situation—About 60 miles downstream from Des Joachims and 10 miles north of Renfrew.

In service—Three units in January 1951, remaining units by November 1951.

Capacity—120,000 kilowatts (160,000 horsepower).

Head—40 feet.

Lengths—Main dam 1,400 feet, Limerick Island dam 1,100 feet, Portage du Fort dam 1,400 feet, side dam 100 feet.

Estimated cost—$29,800,000.

The Portage du Fort dam was completed in December 1949. Rapid progress is being made on the main dam and about one-half of the concrete required for the powerhouse substructure has been poured. Over 1,300 men were employed on the project at the end of the year.

LA CAVE GENERATING STATION—OTTAWA RIVER

Situation—About 5 miles upstream from Mattawa.

In service—First unit in January 1952, five additional units at intervals of two months.

Initial capacity—Six units 144,000 kilowatts (192,000 horsepower)

Ultimate capacity—Eight units 192,000 kilowatts (257,000 horsepower).

Head—77 feet.

Length—Dam and headworks 2,500 feet.

Estimated cost—$50,000,000.

Actual construction started early in 1949 and necessitated the relocation of the greater part of the Canadian Pacific Railway line from Mattawa to Timiskaming. Contracts were let for the railroad grading and other necessary work and this is going ahead. At the main dam a diversion channel was completed and concrete pouring was in progress for the channel sluices and also for the part of the dam on the right bank of the river. About 1,400 men were employed at the end of the year.

J. CLARK KEITH GENERATING STATION (STEAM)

Situation—On the Detroit river near Windsor.

In service—First unit October 1951, second unit December 1951.

Capacity—Two units 120,000 kilowatts (160,000 horsepower), 60 cycles.

Estimated cost—$25,000,000.

H. G. Acres and Company, consulting engineers, have been retained to carry out the engineering and to supervise the construction. Construction and engineering offices and buildings were erected and the soil characteristics of the area were determined. Later steel test-piles were driven and the actual construction commenced in the spring of 1949. A railway spur was built 1-½ miles to connect the site with the Essex Terminal Railway main line. This spur will be used to transport the turbine-generators and other heavy equipment. A coal unloading dock with shore connection was constructed from river's edge to deep water at the harbour line. Permanent piles were driven and placing of the substructure concrete has been completed.

The station is to be provided with special equipment to extract the dust and fly-ash from the chimney gas to avoid smoke nuisance.

RICHARD L. HEARN GENERATING STATION (STEAM)

Situation—440 Unwin avenue, Toronto south of the Ship Channel in the eastern area of the harbour.

In service—First unit November 1951, second unit February 1952.

Capacity—Two units 200,000 kilowatts (268,000 horsepower), 60 cycles.

Estimated cost—$40,000,000.

For this station the Stone & Webster Engineering Corporation have been retained to carry out the engineering and to supervise the construction.

During 1949 soil exploration was undertaken, test-piles were driven and a railway siding was built for construction purposes. Amongst the preliminary activities were the erection of the contractors' and engineering offices, construction of permanent roadways, and a connection made to the city water supply. The driving of permanent piles commenced in September 1949 and is proceeding satisfactorily.

The first unit will supply electrical energy at 25 cycles, but is so designed that it can readily be converted to 60-cycle generation later. The second unit will be designed for 60 cycles.

The station is to be provided with special equipment to extract the dust and fly-ash from the chimney gas to avoid smoke nuisance.

Emergency Steam Stations

Five emergency steam stations are at present under construction. They are being built expressly to help ease the power situation in the Southern Ontario system. R. A. Hanright, consulting engineer was retained for the design and supervision of construction of these plants.

SCARBOROUGH GENERATING STATION (STEAM)

Situation—500 Unwin avenue, Toronto, south of the turning basin in the eastern area of the harbour.

In service—November 17, 1949.

Capacity—Four units 20,000 kilowatts (26,800 horsepower) 60 cycles.

Estimated cost—$3,500,000.

A site was leased from the Toronto Harbour Commission and construction commenced in the summer of 1949. Foundations were laid and a temporary building erected to house the four steam-electric generating units and auxiliaries.

HAMILTON GENERATING STATION (STEAM)

Situation—Burlington road in the eastern area of Hamilton bay.

In service—November 23, 1949.

Capacity—Two units 10,000 kilowatts (13,400 horsepower) 60 cycles.

Estimated cost—$1,500,000.

The foundations and certain sections of the old Hamilton steam plant were altered to permit the installation of two 5,000-kw, turbine-generators and four steam generating units and auxiliaries. This station will assist in serving Hamilton's present 25-cycle area when that city is converted to 60-cycle operation. Initially the power from both units will be fed into a frequency-changer at the Canadian Westinghouse Company's plant in Hamilton.

STELCO GENERATING STATION (STEAM)

Situation—At the plant of the Steel Company of Canada, Hamilton.

In service—November 21, 1949.

Capacity—One unit 6,000 kw (8,000 horsepower), 25 cycles.

Estimated cost—$350,000.

A used turbine-generator was purchased from the Dominion Iron & Steel Company of Sydney, Nova Scotia. New foundations and a building extension were constructed to house the generator and a new condenser was installed. Other necessary changes were made to the Company's plant for the operation of the turbine-generator, steam for which will come from the company's boilers.

ONTARIO PAPER COMPANY GENERATING STATION (STEAM)

Situation—On the Welland canal near the plant of the Ontario Paper Company, Limited, Thorold.
In service—December 1, 1949.
Capacity—Three units 15,000 kw (20,000 horsepower), 60 cycles.
Estimated cost—$1,500,000.

The site was leased from the Department of Transport and a temporary building was erected to house four turbine-generators with auxiliaries. The steam will be supplied by the Ontario Paper Company, Limited.

CANADA AND DOMINION SUGAR COMPANY GENERATING STATION (STEAM)

Situation—At the plant of the Canada and Dominion Sugar Company, Limited at Chatham.
In service—February 1950.
Capacity—One unit 10,000 kw (13,400 horsepower), 25 cycles.
Estimated cost—$500,000.

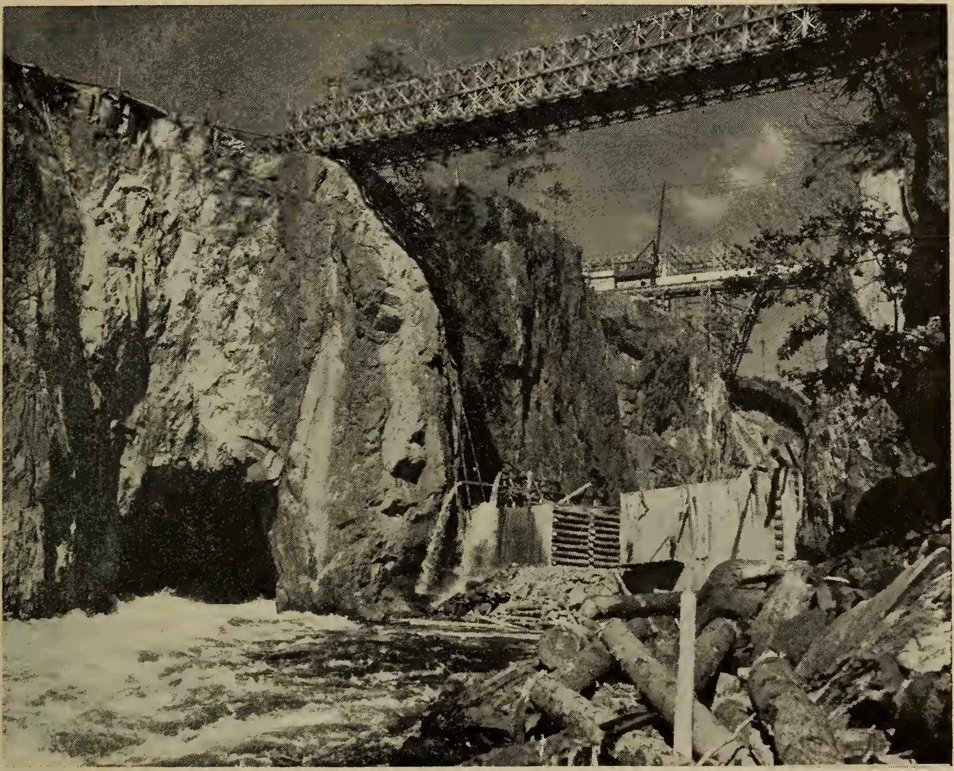
Arrangements were made with the Canada and Dominion Sugar Company for the installation of a 10,000-kw turbine-generator with auxiliaries in a temporary building at their plant. New condensers and auxiliaries were installed and the steam will be supplied by the Company.

THUNDER BAY SYSTEM

PINE PORTAGE GENERATING STATION—NIPIGON RIVER

Situation—About 24 miles north of Nipigon.
In service—First unit July 1950, second unit September 1950.
Initial capacity—Two units 60,000 kilowatts (80,000 horsepower).
Ultimate capacity—Four units 120,000 kilowatts (160,000 horsepower).
Head—105 feet.
Length—Main dam 3,000 feet.
Estimated cost—$26,300,000.

More than 70 per cent of the concrete in the main dam and 60 per cent in the powerhouse was placed. Concrete work was proceeding on the spillway and on the foundations for the high-voltage switching structures. Erection of the two turbine units was under way. Tailrace excavation was almost finished and all of the area that will be flooded upstream from the dam has been cleared. The Pine Portage project was the only remaining site available for development on the Nipigon river and on its completion about 240 feet of the total fall of 250 feet from lake Nipigon to lake Superior will be developed. About 1,300 men were employed on the project.



TUNNEL POWER DEVELOPMENT, MISSISSAGI RIVER
Showing mouth of diversion tunnel blasted through solid rock 900 feet long and 30 feet in diameter. Taken in July 1949

NORTHERN ONTARIO PROPERTIES

Tunnel Generating Station—Mississagi River

Situation—18 miles northeast of Thessalon.
In service—Two units June 1950.
Capacity—Two units 42,000 kilowatts (56,000 horsepower).
Head—210 feet.
Length—1,000 feet.
Estimated cost—$17,400,000.

This development, built in a narrow canyon, consists of a high, gravity-type, concrete dam with the powerhouse situated on the down-stream face. Flood waters of the river will pass through the sluices in an extension of the main dam on the left bank of the river and thence, by a diversion channel, will return to the river some distance downstream. More than 80 per cent of the concrete has been placed in the main dam and about one-half in the powerhouse. The erection of the sluice gates and closure gate was completed. Approximately 850 men are employed on the project.

Some 40 miles upstream from the development, a storage dam was built during 1949 at Rocky Island lake, where a storage reservoir, with a capacity of 300,000 acre-feet, will regulate the flow of the river and assure maintenance of suitable flows in the fall and winter months. The reservoir is equipped to store the spring run-off of 1950. Other sites on this river when developed will benefit from this storage.

Other Activities

In addition to the main projects, major rehabilitation and renewals have proceeded on existing developments, including the replacement of wood-stave conduits at Sandy Falls and Wawaitin on the Mattagami river.

TRANSFORMER STATIONS AND TRANSMISSION LINES

In line with the progress made during 1949 on several main generating stations there was corresponding progress on the provision of transformer stations and new transmission lines. Most of the work on large hydro-electric developments approaches completion before the installation of electric generating units; thus the peak of construction on the hydraulic features is passed before the transformer stations and transmission lines are needed. This situation was occurring in the Commission's construction program towards the end of 1949 and consequently the program for 1950 will feature a lessening percentage of work on generation and an increasing percentage on transformation and transmission.

Projects for transformer stations and transmission lines are very numerous. Most of them can be segregated into one or other of five main geographic groups. Each group involves a combination of stations and transmission lines of substantial length and in three of the groups frequency-changers are provided.

At the end of this section tabulations are presented which list all major increases in transformer capacity installed during the year and the total mileage of transmission lines and circuits constructed during the year.

Details of the satisfactory progress made during 1949 are given below:

SOUTHWESTERN ONTARIO

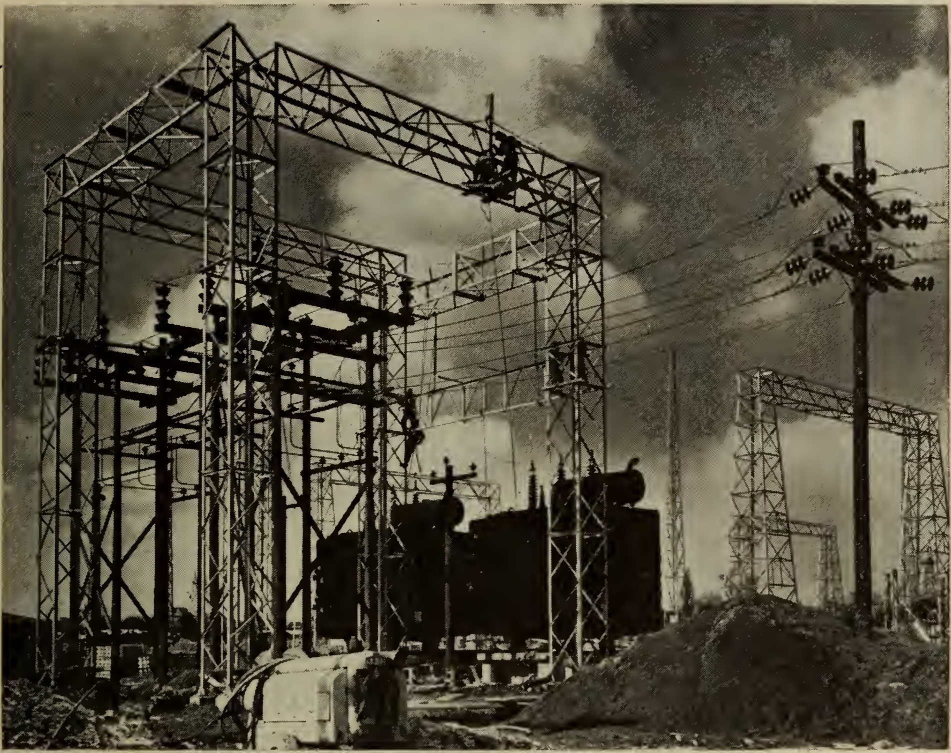
Westminster Frequency-Changer and Transformer Station

The second 25,000-kva frequency-changer unit with its transformers and other associated equipment was placed in service in April 1949. Work is proceeding on the extension of the station to provide for the third 25,000-kva frequency-changer unit which is scheduled for service in August 1950. The construction of facilities to receive Des Joachims and La Cave power in 1950 are also under way. These comprise three 90,000-kva, 3-phase, 60-cycle, 230/121/13.2-kv autotransformers and two 48,000-kva, 60-cycle, 13.8-kv synchronous condensers.

TORONTO AND HAMILTON AREAS

Kipling Transformer Station

Construction work at Kipling transformer station continued in 1949. The two 25,000-kva, 115,000/26,400-volt, 3-phase, 25-cycle transformers, the second stage in the construction of this station, were placed in service



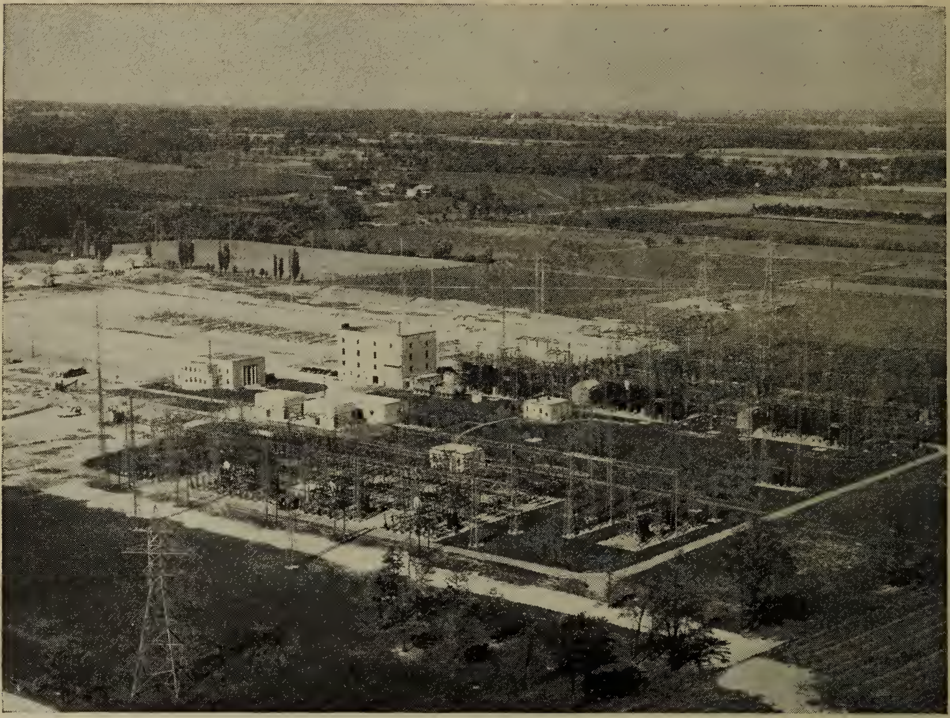
KIPLING TRANSFORMER STATION WEST OF TORONTO
Assembling regulating structure for the 115,000-volt, 25-cycle transformers

in March and April 1949 together with associated equipment. Also, three 25,000-kva, single-phase, 25-cycle, 230/115-kv transformers and associated equipment, required to receive 25-cycle power from eastern generating sources through a 230,000-volt line from Masson, Quebec, a distance of 253 miles, were placed in service in September 1949. The line was made alive from Masson to Leaside junction in December 1948, but the section from Leaside junction to Kipling transformer station was not placed in service until September 1949. This work was described as the third stage in "Hydro in 1948."

The fourth stage, which includes the provision of equipment to receive Des Joachims 60-cycle power, is under way. It is expected that two of the three 90,000-kva, 230/121/13.2-kv, 3-phase, 60-cycle autotransformers and two 48,000-kva synchronous condensers will be ready for service in July 1950. The two 40,000-kva, 230/26.4-kv, 3-phase, 60-cycle transformers are expected to go into service in the fall of 1950, but the rest of the equipment, which consists of two 40,000-kva, 26.4-kv, 3-phase, 60-cycle regulating transformers is not expected until 1951.

Burlington Transformer Station

At Burlington transformer station work is progressing to provide facilities for the receipt of Des Joachims power during the summer of 1950. This includes two 90,000-kva, 230/121/13.2-kv, 3-phase, 60-cycle autotrans-



BURLINGTON TRANSFORMER STATION
Aerial view

formers and one 48,000-kva, 60-cycle, synchronous condenser with associated equipment. The 230-kv switching equipment is scheduled for service in August 1950. The first transformer is scheduled for November 1950 and the second for January 1951.

Des Joachims and La Cave Lines and Stations

The construction of 1,250 circuit miles of 230-kva lines, necessary to transmit Des Joachims and La Cave power to the Southern Ontario area, is proceeding according to schedule. These lines include a 230-kv line from La Cave to Des Joachims, which will be operated initially at 115-kv to transmit power from Des Joachims through La Cave to Sudbury. About 425 miles of tower line have been erected and 250 route miles of conductor have been strung.

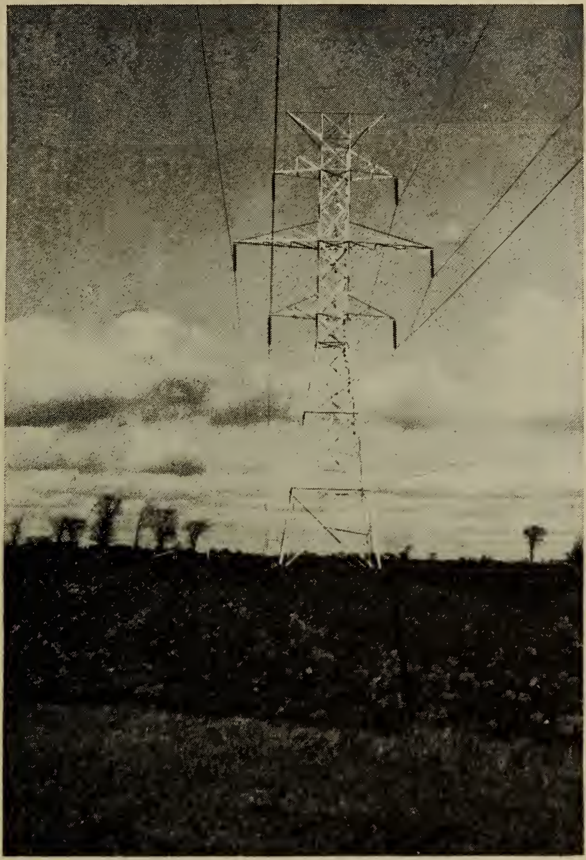
Design work for the Essa transformer station is in progress. This station, situated near Barrie, will supply power from the Des Joachims-La Cave lines to the Georgian Bay division at 115-kv. It is scheduled for service in September 1951.

Construction of a 230-kv switching station at Minden, required for interswitching the 230-kv circuits, was commenced.

EASTERN ONTARIO AND GEORGIAN BAY AREA

Scarborough Frequency-Changer and Transformer Station

The second 25,000-kva frequency-changer unit was placed in service in May 1949.



DOUBLE-CIRCUIT, 230,000-VOLT LINE
MINDEN TO RICHVIEW

The initial installation of 60-cycle transformation at this station was provided in January 1949 by transformers of 6,000-kva capacity at 115/26.4-kv. In October 1949 additional step-down capacity was provided by adding to the 6,000-kva already installed a 14,500-kva, 3-phase, 60-cycle transformer rated at 115/26.4 kv. Both these installations were temporary. In November 1949 the initial 6,000-kva capacity was replaced by a 27,000-kva, 3-phase transformer of the same voltage rating and in December 1949 the 14,500-kva unit was replaced by a second similar 27,000-kva unit. These transformers are required to supply 60-cycle power at 26.4 kv to new industries in East York and Scarborough townships, whose initial power supply is being given at this frequency, and also to provide 60-cycle power to loads in this area converted during the year from 25 to 60 cycles.

Work was begun on the installation of equipment required to receive Chenaux power early in 1951.

Chenaux Lines and Stations

In order to connect the Chenaux generating station to the Southern Ontario 230-kv system, it is necessary to build approximately 28 miles of

230-kv line from Chenaux to a point on the Barrett Chute-Oshawa 230-kv line near Mountain Chute. Also 28 miles of 230-kv line will be built from a point on the Barrett Chute-Oshawa line near Oshawa to Scarborough frequency-changer and transformer station. Survey work on these lines is under way. They are scheduled for service early in 1951.

A 230/115/13.2-kv transformer station at Peterborough is being designed and will supply power from the Chenaux line to the Peterborough area.

New 115-kv Stations and Lines

Eleven new 115-kv transformer stations for the Southern Ontario system were completed or in progress during 1949 as follows:

Transformer station	Capacity kva	Frequency	Transformer station	Capacity kva	Frequency
Cobden	3,000	60	London-Nelson	54,000	60
Kitchener Temporary	8,000	25	Tillsonburg	8,000	25
Peterboro	30,000	60	Strathroy	15,000	60
Toronto-John	60,000	25	Seaforth	22,400	60
Armitage	22,400	60	Windsor	54,000	60
Galt	16,000	25			

To connect these stations to the 115-kv transmission system will require about 20 miles of new line.

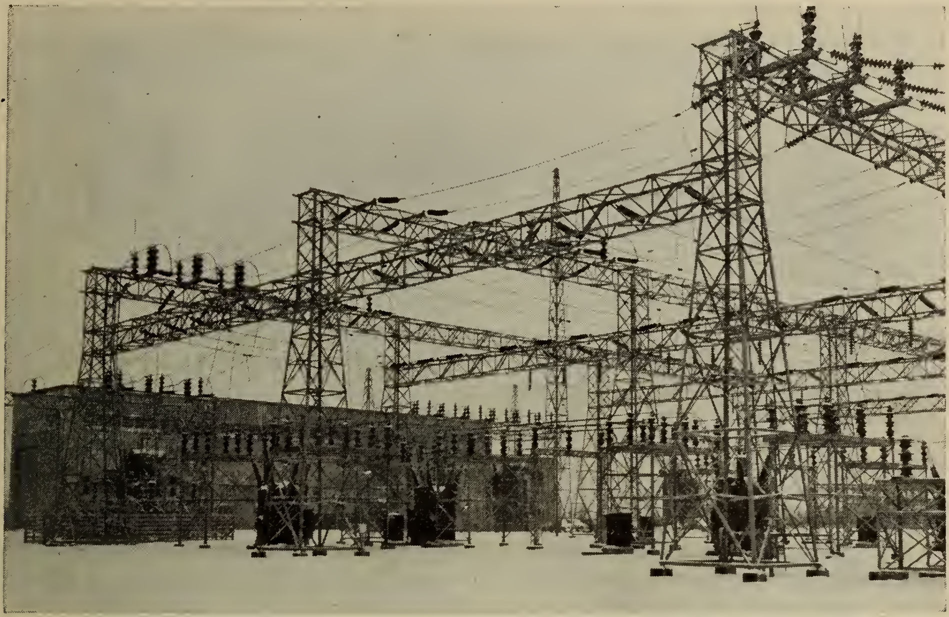
In addition 74 miles of 115-kv line from Barrett Chute generating station to Frontenac transformer station at Kingston and 32 miles of 115-kv line from the new Peterborough transformer station to Oshawa transformer station are under way.

Facilities to Receive Power from Thermal Generating Stations

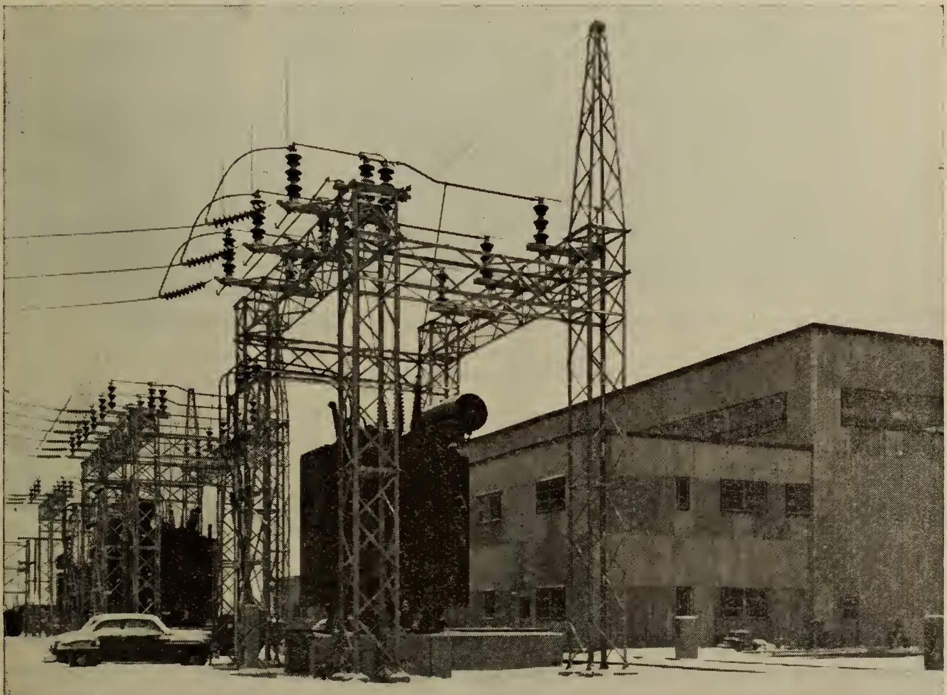
(a) Toronto-Gerrard transformer station at Don valley and Gerrard street, Toronto, was placed in service on November 17, 1949 to supply the initial 60-cycle power to the Toronto Hydro-Electric System at 13.2 kv and to transfer excess 60-cycle power to Scarborough frequency-changer and transformer station. The station comprises four 6,250-kva, 28,400/14,200-volt, 3-phase, 60-cycle transformers and associated equipment and is connected to Scarborough frequency-changer and transformer station by a 26.4-kv, 60-cycle, double-circuit line about nine miles long and to the Scarborough steam generating station by two 13.2-kv, 60-cycle underground cables, each about 2-½ miles in length.

(b) The output of the 60-cycle Hamilton steam generating station, which is of 10,000-kw capacity, is delivered to the Hamilton Hydro-Electric System 13.2-kv line, which connects the steam station to a 25/60-cycle frequency-changer at the Canadian Westinghouse Company plant. By arrangement with the Commission the Canadian Westinghouse Company has installed the frequency-changer several years sooner than would have been required for the Company's purposes.

Planned for January 1950 is a tie between the Hamilton steam plant and the DeCew 60-cycle system at Firestone distributing station, where one



SUDBURY FREQUENCY-CHANGER AND TRANSFORMER STATION
Switching structure for 115,000-volt circuits



SUDBURY FREQUENCY-CHANGER AND TRANSFORMER STATION
Frequency-changer transformers, capacity 25,000 kva and two 8,000-kva transformers. Facilities of the station include 25,000-kva frequency-changer unit, enabling the Commission to provide a power supply to both the 25 and 60-cycle networks in the Sudbury district and to distribution systems in the Nipissing, Timiskaming and Abitibi districts

12,000-kva, 44/13.2-kv transformer bank will be assigned to 60-cycle service and a temporary 4,500-kva, 44/13.2-kv, 66-⅔-cycle, bank will continue to supply power at 66-⅔ cycles for certain Hamilton consumers until their equipment has been converted to 60 cycles.

(c) Power at 66-⅔ cycles from the steam generating station at the plant of the Ontario Paper Company at Thorold is transmitted by means of four miles of new 44-kv, two-circuit line to a point on the 44-kv system south of Thorold.

(d) The steam generating station at the plant of the Canada and Dominion Sugar Company at Chatham will be placed in service in February 1950. To connect the station to the 25-cycle system about three-quarters of a mile of 26.4-kv line is under construction.

THUNDER BAY SYSTEM

Pine Portage-Port Arthur Lines and Stations

Surveys were completed for 12 miles of the 115-kv line from Pine Portage to Alexander and about 40 miles of the right-of-way for the new 115-kv line from Alexander to Port Arthur have been cleared. These lines are scheduled for service in 1950.

NORTHERN ONTARIO PROPERTIES

Sudbury Frequency-Changer and Transformer Station

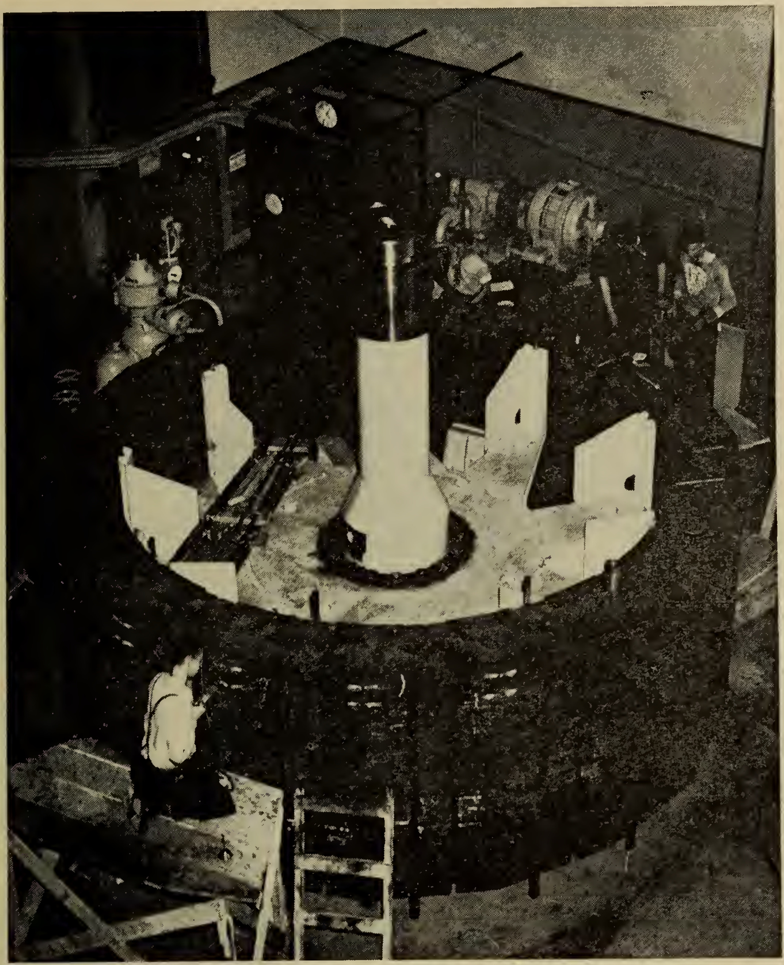
Construction of the Sudbury frequency-changer and transformer station is proceeding according to plan. All major equipment is in place and comprises one 25,000-kva frequency-changer, 25/60-cycle, 13.8-kva; one 25,000-kva, 115/13.8-kv, 60-cycle transformer; one 25,000-kva, 115/13.8-kv, 25-cycle transformer and two 8,000-kva, 115/24-kv, 3-phase, 60-cycle transformers. The two 8,000-kva transformer units were placed in service in September 1949 and will connect the 115-kv system to the Sudbury district 22-kv system. The frequency-changer was placed in service on December 21, 1949.

Tunnel-Sudbury and Associated High-Voltage Lines

The 115-kv, single-circuit transmission line connecting the Tunnel generating station to the Sudbury frequency-changer and transformer station is nearing completion. Of the 132 miles of line, 125 miles of structures have been erected and 99 miles of conductor strung. It is scheduled for service in May 1950.

A new 115-kv line from Coniston to Sudbury frequency-changer and transformer station, a distance of about seven miles, was placed in service in September 1949. This line connects the 115-kv, 60-cycle transmission system from Upper Notch through Crystal Falls to Coniston, to the Tunnel-Sudbury line and, through the Sudbury frequency-changer and transformer station, to the 132-kv, 25-cycle Abitibi Canyon line.

A 115-kv connection from La Cave generating station to Crystal Falls was commenced. Of the total length of 62 miles about 17 miles of structures have been erected. This line is due for service in July 1950.



FREQUENCY CHANGE-OVER OF A NORTHERN ONTARIO PLANT
Rebuilding the rotor of a large hydro-electric generating unit to convert the unit from 25 to 60-cycle operation

Other Projects

In connection with the expansion program at present being carried on, a large number of other projects were completed or under construction in 1949. In Appendix III to this report many of these are listed and briefly described.

Appendix III also contains tabulations showing:

Change in transformer capacity during the year ended October 31, 1949.

Transmission line changes and additions made during the year ended October 31, 1949.

A section relating to Communications—all systems dealing with telephone, power line carrier, telemetering circuits and radio facilities.

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total to Oct. 31, 1948	Additions 1949	Total to Oct. 31 1949	Total to Oct. 31 1949
SOUTHERN ONTARIO SYSTEM					
Niagara division					
230,000-volt	steel	1,025.12	351.64	1,376.76	1,425.57
115,000-volt	"	860.95	3.04*	857.91	1,444.62
115,000-volt	wood	191.03	....	191.03	192.86
60,000-volt	steel	20.00	....	20.00	21.13
60,000-volt	wood	0.25	....	0.25	0.25
26,400-volt	"	1,071.86	112.25	1,184.11	1,358.66
13,200-volt	"	230.78	3.97*	226.81	290.44
13,200-volt	steel	0.82	....	0.82	1.64
12,000-volt	wood	77.37	....	77.37	101.16
Dominion Power district 44,000-volt	steel	93.99	....	93.99	132.34
Dominion Power district 44,000-volt	wood	48.35	....	48.35	58.93
Dominion Power district 22,000-volt	"	28.02	....	28.02	28.02
Dominion Power district 10,000-volt	"	14.40	....	14.40	14.40
Georgian Bay division					
115,000-volt	steel	49.68	....	49.68	49.68
115,000-volt	wood	88.82	....	88.82	88.82
Bala district 44,000-volt	"	64.44	0.44	64.88	64.88
Eugenia district 44,000-volt	"	308.40	0.27	308.67	375.12
Muskoka district 44,000-volt and less	"	39.16	17.16	56.32	56.32
Severn district 44,000-volt and less	"	257.09	5.55	262.64	319.60
Wasdell district 44,000-volt and less	"	91.03	0.83	91.86	92.37
Eastern Ontario division					
115,000-volt	steel	395.70	2.82	398.52	409.90
115,000-volt	wood	369.21	13.73*	355.48	357.30
44,000-volt	"	24.33	....	24.33	24.33
33,000-volt	"	42.80	....	42.80	48.48
Central district 44,000-volt and less	"	600.37	24.83	625.20	662.48
St. Lawrence district 44,000-volt	"	144.05	0.30	144.35	144.73
Rideau district 26,400-volt	"	62.48	....	62.48	62.48
Madawaska district 33,000-volt	"	55.29	....	55.29	55.29
THUNDER BAY SYSTEM					
115,000-volt	steel	147.28	....	147.28	230.89
115,000-volt	wood	178.83	....	178.83	178.83
44,000-volt	"	127.96	0.04	128.00	128.00
22,000-volt	*	8.54	40.34	48.88	87.11
12,000-volt	"	1.45	1.45*	....	....
NORTHERN ONTARIO PROPERTIES					
Abitibi district 132,000-volt	steel	382.77	....	382.77	765.54
Abitibi district 132,000-volt	wood	189.83	6.26	196.09	196.09
Abitibi district 26,400-volt	"	190.08	1.97	192.05	192.71
Abitibi district 13,200-volt	"	20.30	1.41	21.71	22.31
Timiskaming district 115,000-volt	steel	58.90	....	58.90	117.80
Timiskaming district 115,000-volt	wood	74.56	28.21*	46.35	46.35
Timiskaming district 44,000-volt	"	244.14	45.55	289.69	289.69
Timiskaming district 12,000 & 11,000-volt	"	105.22	0.48	105.70	170.42
Sudbury district 115,000-volt	steel	....	6.70	6.70	6.70
Sudbury district 115,000-volt	wood	46.23	....	46.23	46.23
Sudbury district 22,000-volt	"	78.37	12.75	91.12	91.33
Nipissing district 22,000-volt	"	63.16	38.39	101.55	118.43
Manitoulin district 44,000-volt	"	....	15.85	15.85	15.85
Rainy River district 115,000-volt	"	119.81	....	119.81	119.81
Patricia district 69,000-volt	"	203.72	....	203.72	203.72
Patricia district 44,000-volt	"	247.57	23.60	271.17	271.17
Patricia district 22,000-volt	"	33.51	....	33.51	33.64
Totals		8,778.02	659.03†	9,437.05	11,214.42

*Removals. †Net increase.

NOTE: Circuit miles of 230,000-volt line in the province of Quebec connected to H-E.P.C. lines = 103.45. Total 230,000-volt system interconnected circuit miles = 1,529.02.

DISTRIBUTION LINES AND SYSTEMS IN RURAL OPERATING AREAS

The following summary shows the mileage of distribution lines constructed by the Commission in rural operating areas, and the number of consumers served.

The summary indicates a total net increase in construction during the year of 4,738 miles of new primary line constructed, giving service to 35,206 additional consumers.

SUMMARY OF CONSTRUCTION IN RURAL OPERATING AREAS

System and division or district	At October 31, 1948		At October 31, 1949					
			Miles of primary line			Number of consumers		
	Miles of primary line constructed	Number of consumers receiving service	Constructed	Under construction or authorized	Total	Receiving service	Authorized	Total
Southern Ontario System								
Niagara division......	14,234	126,831	15,182	245	15,427	138,461	868	139,329
Georgian Bay division.	4,949	35,618	6,208	121	6,329	44,417	880	45,297
Eastern Ontario division...........	6,971	48,228	8,546	226	8,772	58,399	2,139	60,538
Thunder Bay System	416	2,134	585	17	602	2,939	188	3,127
Northern Ontario Properties								
Abitibi district.......	125	573	173	10	183	1,107	66	1,173
Timiskaming district..	31	67	160	80	240	480	662	1,142
Sudbury district......	139	2,908	335	102	437	3,864	1,053	4,917
Nipissing district.....	141	1,760	235	52	287	2,615	307	2,922
Manitoulin district...	226	1,566	267	90	357	1,833	239	2,072
Rainy River district..	71	404	164	68	232	537	383	920
Smooth Rock area....	18	....	119	2	121	643	327	970
Patricia district......	....	....	85	55	140	....	452	452
Totals........	27,321	220,089	32,059	1,068	33,127	255,295	7,564	262,859

SECTION VII

RESEARCH, TESTING AND APPROVALS ACTIVITIES

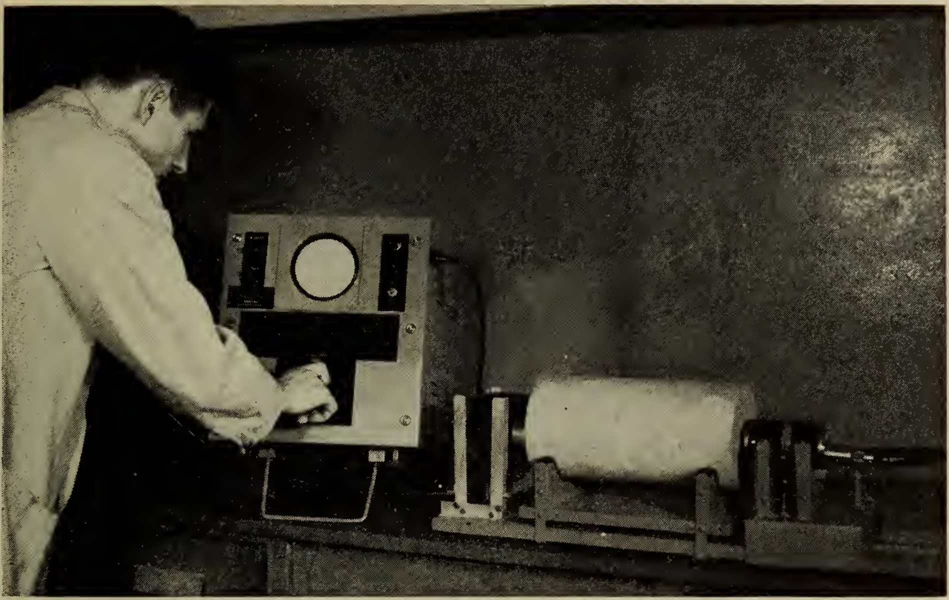
Research Activities Improve Operational and Maintenance Methods and Increase Efficiency—Testing and Approvals Maintain High Standards—All Consumers Enjoy Resulting Benefits

THE VOLUME of research and testing handled by the Research division continued to increase in keeping with the general growth of the Commission. The contributions made by research activities to the efficiency of all technical phases of the Commission's operations are being more fully recognized, as their ultimate benefits to power consumers become apparent. An average of some 750 written and oral requests per month were received for information, consultations, and the undertaking of investigations. The four departments of the Division, namely, electrical, structural, chemical, and concrete control, served vital functions in their respective fields.

In the electrical field there were further developments of methods and apparatus for detecting deteriorated transmission line joints, locating power and communication line faults, non-destructively examining the interior of concrete structures for cracks and deterioration, and indicating the temperature of inaccessible current-carrying parts in transformers, cables and rotating machines.

Studies basically of structural significance included a detailed investigation of fly-ash, both as a partial replacement for cement and as a by-product of coal-fired steam generating plants; continued measurement of temperature conditions within mass concrete, and provision for such measurements in dams under construction; a further development of steel sleeves for compression joints, and of dead-end assemblies; and a comparison of filters for the cooling air of frequency changers.

Progress in chemical fields to further the Commission's operations included new advances in the application of copper pentachlorophenate as a wood preservative; a general adoption, based on field tests, of sprays of herbicidal chemicals to control right-of-way brush and stump regrowth; a successful campaign to reduce the blackfly menace in the community at a northern generating station; and the extension of a program of periodic



SONISCOPE TESTING A SPECIMEN OF CONCRETE

checking of the condition of the electrical insulating oil in the major equipment throughout the Commission.

In addition to supervising the preparation and placement of all concrete used, the concrete control department added to its knowledge of concrete through studies of such questions as the minimum protection needed by fresh concrete during freezing weather, and the loss of artificially entrained air during the handling of concrete prior to its placement.

Some phases of the Division's work were furthered through the close co-operation maintained with various other organizations interested and engaged in research and testing. As an example, some tests were conducted for the Commission with special equipment in laboratories of such bodies as the University of Toronto and the National Research Council, and with the assistance of staff members of these organizations.

Co-operative research programs on problems of mutual interest, such as conductor vibration, deterioration of insulating oil in service, and applications of electricity in agriculture, were continued in conjunction with other organizations.

In its Approvals Laboratory, the Division, as the testing agency for the Canadian Standards Association, continued the testing of electrical equipment and appliances. Products which did not conform to specified standards of safety were thus prevented from reaching the consumer. Early in 1948 the Commission requested the Canadian Standards Association to assume full responsibility for this activity and to take over the staff engaged in this work. The negotiations connected with this transfer are nearing completion, and it is expected that the Canadian Standards Association will assume full responsibility for approvals testing, including the complete operation of the Approvals Laboratory, during the summer of 1950.

Research and Special Testing

Some forty research project panels now give direction to the Division's major investigations. Each concentrates its effort on problems in a particular field significant to the Commission's operations. Its membership is made up of engineers and technical men with specialized knowledge and experience, and who represent all divisions concerned with the specific problems assigned to the panel. The more extensive panel activities during 1949 are briefly summarized below:

Utilization of Electricity

Further improvements were made to parts of the Hydro water heater, several being covered by revised specifications. The thermal insulating qualities were determined of glass fibre, asbestos, and felt prefabricated covers for hot water tanks. The results prompted the Commission to put into effect a regulation requiring all further water-heater installations to be insulated with a minimum thickness of one inch of glass fibre or its equivalent.

An experimental heat pump installed at a transformer station, and utilizing a portion of the transformer cooling water, demonstrated the practicability of this application of the heat pump for winter heating and summer cooling of the control room. Studies are being continued of the applicability of the heat pump principle, in conjunction with earth coils, to house heating and cooling in the Toronto area.

Lighting

Work on methods and equipment to promote effective lighting included the design and construction of a self-contained portable reflectometer for accurate field measurement of reflective factors; the initiation of tests to determine the depreciation in light output during life of reflector and cold cathode fluorescent lamps; and a detailed appraisal of existing lighting in the control rooms of certain generating and transformer stations, to aid in the design of lighting installations for new structures. A summarizing report on bactericidal lamps was prepared, and included detailed information on their use for treatment of air, as a barrier to air-borne bacteria, and for sanitary storage.

Lightning Protection

Laboratory and field studies of lightning were continued to help establish the optimum ways of protecting all classes of electrical equipment from lightning damage. The Division's surge-testing equipment was used for many purposes, such as to obtain the impulse characteristics of several makes of valve-type distribution arresters; to study the causes of excessive distribution fuse blowing; and to conduct impulse flashover tests on insulators, transformers, and switchgear. Field work included the inception of a survey of the frequency of operation of the 110-kv arresters in the Southern Ontario system; continued recording of surge voltages and currents at two transformer stations, and at isolating transformers at several generating stations; and the installing at two transformer stations of electronic stroke-component counters developed by the Division.

Fault Location by Linascopes

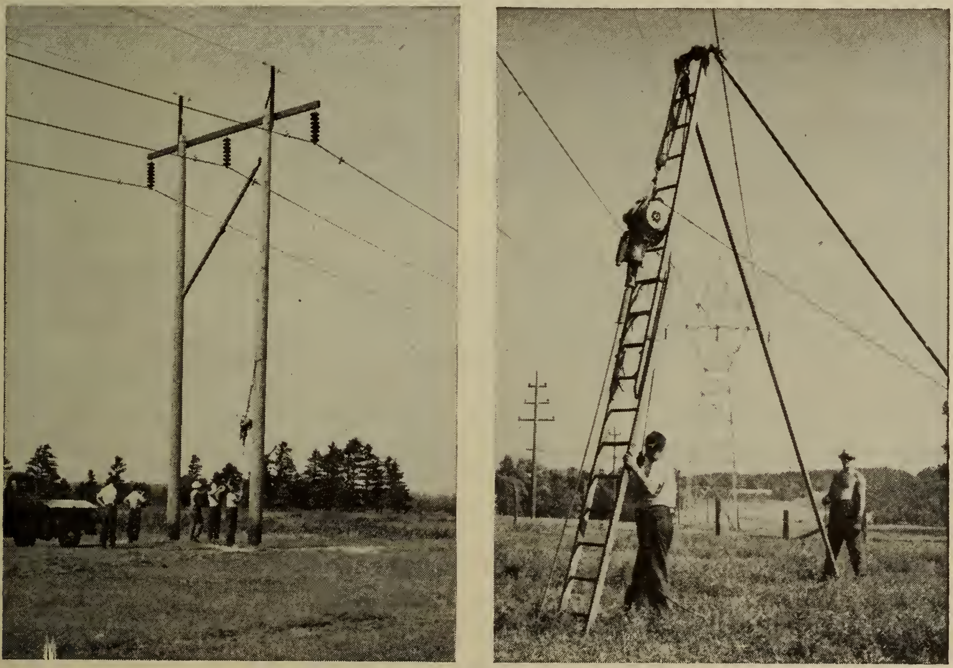
Portable linascopes developed and built by the Division for locating sustained faults on long open-wire power and telephone lines are in use at six stations and have already successfully located a wide variety of faults. Development has continued to improve the performance of a linascope installed at Leaside transformer station for recording automatically the location of both sustained and transient faults within 150 miles on any of the four 220-kv circuits. An experimental unit also employing the echo-ranging principle, was built for locating faults in telephone and power cables.

Grounding Improvement

The method devised for power-driving long rods into underlying strata to improve both transmission and distribution grounding in some areas continued to prove advantageous, and assistance was given in the development of a simplified assembly comprising an end-tapered rod, tapered coupling, and hardened steel tip. In addition, the Division advised on methods of grounding construction power systems and assisted in determining satisfactory procedures for securing permanent station grounds.

Joints and Connections

Since joints and connections of unquestioned quality in electrical conductors are so vital to the Commission's operations, tests under both accelerated and long outdoor exposure are continually in progress on such items as compression joints, twisted sleeve joints, and live-line clamps. Application of the results of these tests is producing better and a smaller variety of clamps to serve the Commission's needs.



GROUNDING WITH LONG RODS

Left: Gasoline hammer suspended from pole
Right: Tripod in use away from structure

The bolometer developed to detect overheated joints in older transmission lines was further refined. It was used with marked success and substantial savings in several applications, particularly to survey all the joints in a double-circuit 110-kv transmission line more than 100 miles in length.

Line Materials

Studies were directed toward developing more efficient line hardware and methods of employing it; extensive comparative tests were made of various different products. The electrical power losses in a new line of non-ferrous suspension clamps and vibration dampers were measured; if their mechanical strength proves to be adequate, the results suggest the advisability of their use on new 60-cycle transmission lines.

Distribution Equipment

Plans were made for comparative testing of several makes of automatic circuit reclosers which, if properly co-ordinated with line-sectionalizing fuses, can reduce both the service interruptions caused by non-persistent faults and the associated maintenance charges. To facilitate checking the peak demand of rural consumers, a simple, inexpensive, three-wire registering thermal ammeter was designed and built, and showed promise in laboratory tests.

Solid Electrical Insulants

The quality of insulating materials such as friction tapes and rubber splicing compounds from various manufacturers, was checked against recognized specifications. The considerable variations found will be significant to the Commission in purchasing large supplies of these materials. To facilitate this work, training of a staff to conduct the tests according to established standard procedures was continued.

Many new insulating materials, particularly some of the plastics, required special testing techniques. Tapes, sheet insulation, insulated wires and cables, and varnishes were some of the newer products investigated.

Liquid Electrical Insulants

The completion of a special laboratory for petroleum products facilitated work on liquid electrical insulants. This laboratory is used mainly for the constant testing of insulating oil from the Commission's major power equipment. Other activities included participation in a co-operative long-time service sludge-testing program, and in a sponsored investigation of methods of test and specifications for electrical insulating varnishes. Also, detailed preparations were made for a survey of available insulating varnishes, and initial tests were begun.

Electrical Power Equipment and Its Protection

Studies to increase operating efficiency and to minimize interruptions of primary supplies were conducted on numerous items of major equipment. Included were tests of the temperature rise of frequency changers to determine the overload tolerable without damage, and studies of the starting requirements of 60-cycle hydrogen-cooled condensers. Two sets of tests were made in the Northwestern region of the operation of the single-pole reclosing

CORNER OF NEWLY INSTALLED PETROLEUM PRODUCTS TESTING LABORATORY

circuit breakers and associated controls, and valuable data were obtained toward maintaining system stability. Special cameras with continuously moving film were developed for the tests. Other work related to the forced cooling of power cables to increase their current-carrying capacity, and to the thermal resistivity of the soil along a proposed cable route.

In a continuing study of means of protecting major power equipment against overheating from electrical overload, the superiority of the rise-simulator type of hot-spot indicator as developed within the Commission was confirmed, and its use with future power transformers approved. A sensitive recording anemometer was developed for use in studies of ways of controlling the fans on air-cooled transformers, and various modifications found other applications. Included with other significant progress was the adaptation of electronic self-balancing potentiometers to measure thermocouple temperatures.

Frequency Standardization Tests

Methods of conversion of numerous items of 25-cycle equipment for 60-cycle operation were investigated as a service for the Frequency Standardization division, and some of the electrical apparatus needed for the frequency standardization program was tested to determine its adequacy for the usage intended.

The suitability of several types of small frequency-changers for operating both domestic and commercial equipment, was investigated. One type of motor-generator set, and a "chopper-type" frequency-changer developed by engineers of the Commission operated satisfactorily.

Work Pertaining to Concrete

Extensive laboratory and field tests relating to concrete and its constituents were continued with the primary purpose of ensuring durability of concrete structures. As an important aid in such studies, the ultrasonic apparatus known as the soniscope was further developed and its operation greatly simplified. Along with its use on laboratory test specimens, its ability to locate and evaluate deterioration as well as cracking of concrete structures was utilized extensively in the field.

Masonry Construction

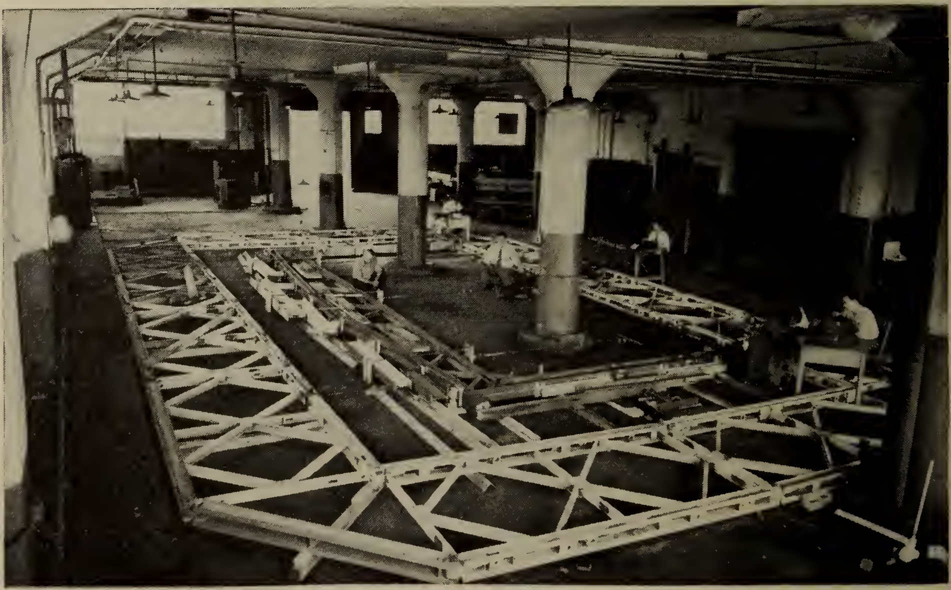
Owing to their increased use, precast masonry slabs were studied in detail. This work embraced methods of fabrication, including steam curing and handling, as well as physical requirements.

Soil Mechanics

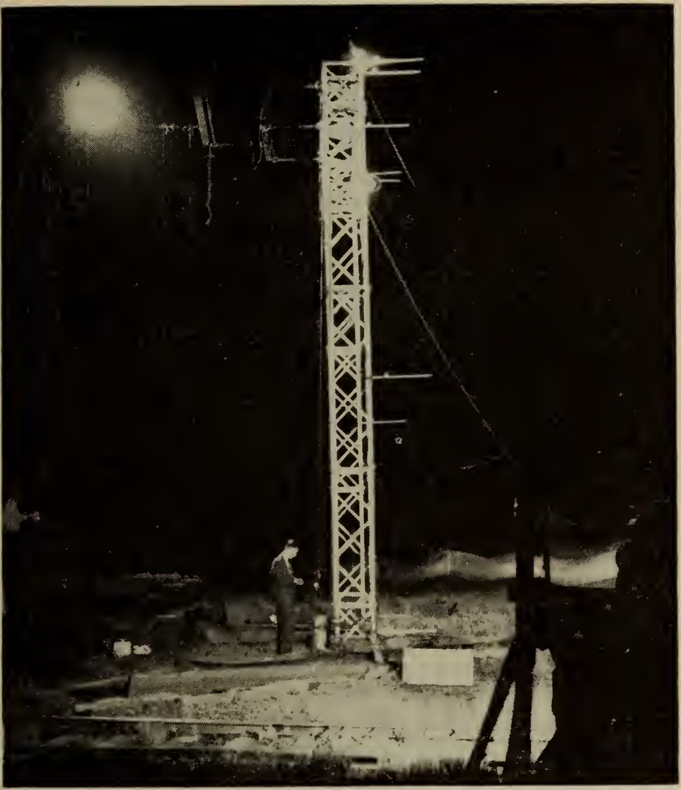
The work in soil mechanics continued to relate largely to foundation investigations, including loading tests, field sampling, and laboratory testing of soils to determine their bearing capacity. Soil surveys also were made to locate suitable sources of materials for various earth structures.

Miscellaneous Structural Testing

Continued application of the Bailey bridge type construction in buildings, form cages, conveyors, and so forth necessitated considerable structural testing of special fittings and standard components.



LOAD TESTS OF 30-FOOT LIGHT GAUGE STEEL BENT



STATION STRUCTURE UNDERGOING HORIZONTAL LOADING TEST

Corrosion of Metals

In an investigation of the value of magnesium anodes to inhibit corrosion and prolong tank life, a group of automatic electric storage water heaters is being operated continuously on a cycle typical of domestic usage. Complete examinations of the tank interiors are being made semi-annually. The group, including unprotected controls, now comprises black iron and galvanized iron tanks, a black iron tank with the interior painted, an aluminum tank and a glass-lined tank.

A study was made of the probable effect of saline ground water on the corrosion of steel piles at the site of a steam generating station.

Stress Measurement and Analysis

Measurement of stresses in various structures and equipment of the Commission continued to yield information of value to designers. The pressure exerted on forms by freshly placed concrete was determined at two developments, and further laboratory measurements under more closely controlled conditions were planned. Preparations were made to measure ice pressures on the dam at another development, by means of equipment installed during construction. Surge pressures and strains in a conduit and surge tank were determined by means of special gauges. The maximum hydraulic thrust of a generator unit was measured by means of strain gauges inserted in cells which were incorporated in the thrust-bearing jack screws. General strain measurement work was facilitated by the acquisition of a two-channel direct-writing oscillograph, with the necessary associated equipment.

Vibration of Transmission Lines

A five-span test line was built and fitted with wooden D-sections to induce galloping under suitable wind conditions. In addition to visual observations, instruments are being installed to provide records of several variables and contributing factors. A small wind tunnel was constructed for related laboratory studies. An investigation of the mechanical features relating to the use of dual conductors on transmission lines was initiated, including two test lines each equipped with two conductors spaced 18 inches apart.

Wood Preservation

Progress in the study of wood preservation included a pilot plant treatment of jack pine pole stubs with copper pentachlorophenate, and continuing laboratory tests of this preservative. The electrical conductivity of both treated and untreated wood poles, and of small specimens of poles species under controlled humidity conditions, was investigated, and the necessity of present safe handling regulations for wood poles near live circuits was confirmed. Examinations were made of the service effectiveness of various ground-line diffusion treatments of poles; of pole stubs exposed in test beds after various treatments; and some poles removed after long service.

Brush and Weed Control and Soil Sterilization

With a continuing program of field tests conducted by the Division as the basis, herbicidal chemicals are being used to control woody regrowth along right-of-way, and to eliminate unwanted vegetation from areas adjoining power stations, transformer yards, and other structures. Several hundred acres of right-of-way were experimentally sprayed with herbicidal chemicals, under the supervision of regional superintendents of the Forestry section. The spraying of freshly made stumps with 2, 4-D solutions to prevent their resprouting became an established routine in the Commission, and a limited amount of sterilization of areas covered with crushed stone was carried out, testing various toxic inorganic chemicals.

Insect Control

Information was prepared and distributed to the Commission's staff concerned, giving the life cycles of such insect pests as blackflies, mosquitoes, and house flies, and detailing control materials, handling precautions, dosages, methods, and equipment. Efforts based on the Division's recommended procedures were made to control the blackfly nuisance at one of the Commission's northern communities, with encouraging results.

Plastics

The ever-increasing number and usage of plastics necessitated a continuing evaluation of all new plastic materials for their economic applicability throughout the Commission, and much information was made available on their significant properties.

Thermal Insulation

With the growing usage of thermal insulating materials and the variety of new types appearing, available products were catalogued and several were tested.

Industrial Water Treatment

Most of the work on water treatment related to the supply of boiler water for both recent small steam generating plants and large plants under construction. In addition, a service test was begun of a type of scale-preventive treatment of transformer cooling ponds, and numerous tests were made of water supplies for various domestic uses and of water softeners.

Miscellaneous Investigations

Among numerous other research projects dealt with by the Division, some of which are continuing for several years, are included the development and checking of methods for testing the electrical insulation of power apparatus; the continual development and improvement of equipment for making accurate electrical, physical, and chemical measurements; studies to reduce the level of noise and vibration in some of the Commission's buildings; problems associated with welding and the evaluation of weld quality; investigations of special uses of lubricants, as for example, in the pulling and protection of lead-sheathed cable; and studies of the properties and applications of protective materials such as fire-retardant paints.

General Tests and Analyses

In addition to their contribution to specific research, standard tests and analyses varying widely in complexity and work entailed, are continually conducted as a service to all phases of the Commission's technical functions. This part of the Division's activities in 1949 occupied about 60 per cent of the staff's time, and involved altogether almost a hundred thousand test samples and specimens.

The Division also was frequently called upon by outside organizations for such purposes as testing, calibrating, and checking. These organizations, not suitably equipped for testing, but generally playing some part in the Commission's operations, engaged the necessary staff and facilities of the Division. Testing for the Department of National Defence also required the time of several members of the staff.

SECTION VIII

PERSONNEL ADMINISTRATION

Employment at Highest Level—Accident Prevention Most Successful—The Year's Activities

A REVIEW of some of the activities of the Personnel branch of the Commission during 1949, together with a word about their significance for the future, may be of help to the municipal authorities and of interest to the general public.

During 1949 employment in connection with administration, operation, engineering and construction work, reached the highest level in the history of the Commission. The total number on the payroll exceeded 20,000 in May and reached a maximum of 22,889 in August. These totals do not include the staff employed by contractors for construction of certain projects and on temporary construction. The increase is largely due to the construction program in progress, but the regular staff included in these figures increased by 2,185 during the year and reached a total of 8,231 in October. In spite of this rapid growth each applicant for employment by the Commission was carefully selected, not only to ensure the necessary qualifications for initial employment but also with a view to his future development and job satisfaction.

The Commission maintains collective agreements with two groups of non-supervisory employees; the Employees' Association, which includes technicians, clerks, trade workers, operators, etc., and the Federation of Employee Professional Engineers and Assistants, which embraces those engaged in professional engineering work. There is provision for the orderly handling of grievances and although recourse may be had to arbitration it is significant that this has never been invoked.

A completely revised pension plan became effective on November 1, 1948, superseding the previous plan which had been in force since 1923. It embodies modern developments in retirement plans and provides substantially increased benefits.

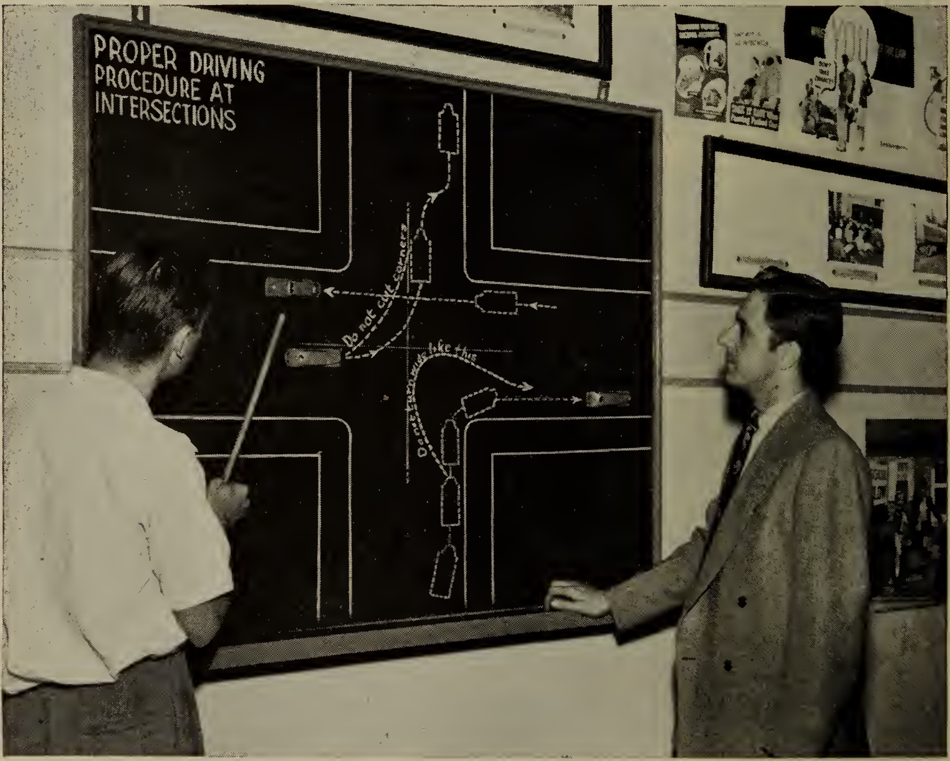
The medical officers and nurses at Head Office were available for consultation and made periodic visits to the regions. Fully staffed hospitals

MOTOR VEHICLE DRIVING TRAINING

Psycho-physical testing of drivers forms part of the Commission's program of driving instruction. The above pictures show a driver being tested for his judgment of distance and for his speed of reaction were maintained at two major developments while first-aid posts were provided at the other large camps.

The importance of maintaining safe working conditions was constantly stressed, to develop a sense of safety consciousness in the minds of all employees. Staff trained in modern safety practices functioned in the larger construction camps and the result has been a marked reduction in the frequency of accidents.

Training was continued throughout the year and the facilities of the Toronto training centre were taxed to capacity. Emphasis centred largely on linemen and foresters and during the year 260 employees completed various forms of training which brought the total to 1,024 since the school was opened in the fall of 1945.



MOTOR VEHICLE DRIVING TRAINING

The driver is given instruction in correct traffic procedure

SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission on Behalf of Co-operating Municipalities of the Southern Ontario System and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission in Trust for the Province of Ontario

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IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario system the Thunder Bay system, and Rural Power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electrical service at cost, and to the wholesale and retail aspects of the work. A description is also given of the systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission of Ontario which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the Southern Ontario and Thunder Bay systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the two systems. These tables include a **balance sheet; a statement of operations** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts, account with the Provincial Treasurer of the Province of Ontario, funded debt, power accounts receivable, depreciation reserves, contingencies and obsolescence reserves, frequency standardization reserve, stabilization of rates reserves and sinking fund reserves.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, a **credit or debit** adjustment summary, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. In general each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use,* together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,† when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for depreciation, and for contingencies and obsolescence. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

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*Subject to maximum rate; see footnote on page 140.

†The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities however, ends on December 31, and the municipal accounts are made up to this date, and are so recorded in Section X.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities and reserves of the co-operative systems.

Statement of Operations.—This statement is a summary of operating expenses and fixed charges as shown in the "cost of power" tables and rural operating statements relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, showing in separate classifications the values of plant under construction and in service, depreciable and non-depreciable. This is supplemented by a statement showing expenditures, adjustments and retirements occurring during the year.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Account with the Provincial Treasurer.—This schedule lists, both for the systems operated on a cost basis and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties' balance sheet.

Funded Debt Issued.—This schedule presents a complete list of the outstanding securities issued by the Commission on account of the systems and the Northern Ontario Properties. It should be noted that securities issued to finance Northern Ontario Properties are shown only in memorandum form on the balance sheet of the Commission, while the direct liability is shown on the balance sheet of the Northern Ontario Properties.

Power Accounts Receivable.—This schedule sets forth the amounts collectable from all classes of power consumers and includes the annual adjustment figures from the "credit or charge" statements for municipalities. The amounts of debit balances three months or more overdue are stated.

Depreciation Reserves,

Contingencies and Obsolescence Reserves,

Frequency Standardization Reserve, and

Stabilization of Rates Reserves.

These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriations of principal and interest with respect to these reserves for each of the systems and certain other properties.

Following these statements, which combine data for all systems, there are given for each of the co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality of the items of cost summarized in Statement of Operations, as well as the apportionment of fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility. In the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as cost of power supplied by H-E.P.C.

Credit or Charge summary statement, which shows the adjustments made in order to bring the amounts paid by the municipal electric utilities to the actual cost of service.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality as part of the cost of power together with its proportionate share of other sinking funds.

Rural Operating statement, which summarizes for the rural power district of the system the various items of cost, and the revenues received, in connection with the distribution of electrical energy to rural consumers.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating account, schedules of fixed assets, depreciation reserve, contingencies and obsolescence reserve, and sinking fund reserve. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

Municipal Utilities

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local Hydro utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the year ended October 31, 1949

Relating to Properties operated on a "Cost Basis" for the Co-operating Municipalities and Rural Power Districts which are supplied with Electrical Power and Services from the following Properties:

Southern Ontario System

Thunder Bay System

Service and Administrative Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1949

Statement of Operations and Cost of Power for the year ended October 31, 1949

Schedules supporting the Balance Sheet as at October 31, 1949:

- **Fixed Assets—By Systems and Properties**
- **Fixed Assets—Changes During Year**
- **Capital Expenditures and Grants—Rural Power Districts**
- **Account with the Provincial Treasurer of the Province of Ontario**
- **Funded Debt**
- **Power Accounts Receivable**
- **Depreciation Reserves**
- **Contingencies and Obsolescence Reserves**
- **Frequency Standardization Reserve**
- **Stabilization of Rates Reserves**
- **Sinking Fund Reserves**

Statements for Municipalities Receiving Power under Cost Contracts

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

BALANCE SHEET AS AT

ASSETS

Fixed Assets:		
Southern Ontario system	$446,687,749.11	
Thunder Bay system	60,476,012.77	
Service and administrative buildings and equipment	10,885,959.91	
Rural power districts	83,360,734.21	
	$601,410,456.00	
Less grants in aid of construction—		
Province of Ontario—for rural power districts	41,331,275.53	
		$560,079,180.47
Current Assets:		
Working funds	$ 334,823.90	
Sundry accounts receivable	921,276.19	
Power accounts receivable	7,091,340.08	
Rural power district grants receivable	7,385,657.44	
Interest accrued	687,275.87	
Consumers' deposits	377,100.03	
Prepayments and sundry deposits	178,543.72	
Northern Ontario Properties—current account	811,058.26	
		17,787,075.49
Inventories:		
Construction and maintenance materials and supplies	$ 30,961,728.85	
Construction and maintenance tools and equipment	13,503,693.27	
Office equipment	960,707.81	
		45,426,129.93
Deferred Charges and Sundry Assets:		
Frequency standardization—equipment and supplies	$ 7,165,122.39	
Debenture discount and expense	4,374,577.47	
Sundry investments	241,280.00	
Agreements and mortgages	91,787.34	
Work-in-progress—deferred work orders	1,644,372.84	
		13,517,140.04
Reserve Fund Investments:		
Investments in government and government guaranteed bonds, at amortized cost—		
Employers' liability insurance fund	$ 2,615,746.50	
Pension fund	17,797,444.90	
Other reserves	65,147,460.26	
		85,560,651.66
		$722,370,177.59

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

OCTOBER 31, 1949

LIABILITIES AND RESERVES

Long Term Liabilities (at par of exchange):			
Funded debt		$345,664,000.00	
Less debentures issued to finance Northern Ontario Properties		58,200,000.00	
		$287,464,000.00	
Advances from the Province of Ontario	$ 71,128,376.32		
Less advances for Northern Ontario Properties	4,786,463.54		
		66,341,912.78	
			$353,805,912.78
Current Liabilities:			
Bank overdraft (partly secured)		$ 5,240,512.01	
Accounts and payrolls payable		17,003,234.66	
Power accounts—credit balances		319,835.64	
Consumers' deposits		446,247.11	
Debenture interest accrued		2,139,175.59	
Miscellaneous accruals		466,634.38	
			25,615,639.39
Rural Power Districts—rates suspense			2,221,479.06
Reserves:			
Depreciation	$ 88,387,141.40		
Contingencies and obsolescence	30,697,392.64		
Frequency standardization	59,589,685.43		
Stabilization of rates	22,686,710.13		
Fire insurance	306,482.43		
		$201,667,412.03	
Employers' liability insurance		2,774,854.65	
Pension fund		18,020,277.97	
Miscellaneous		1,418,583.88	
			223,881,128.53
Sinking Fund Reserve:			
Represented by funded debt and provincial advances retired through sinking funds			116,846,017.83
			$722,370,177.59

Commitments under uncompleted contracts for the construction of fixed assets, approximately $48,000,000.

Auditors' Report

We have examined the balance sheet of the Southern Ontario and Thunder Bay systems of The Hydro-Electric Power Commission of Ontario as at October 31, 1949 and the attached statement of operations for the year ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the foregoing balance sheet and related statement of operations (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay systems of the Commission at October 31, 1949 (subject to the trusts which prevail in respect thereto) and of the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 6, 1950.

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

STATEMENT OF OPERATIONS

	Southern Ontario system
	$ c.
COST OF POWER:	
Cost of power purchased	13,220,956.29
Operating, maintenance and administrative expenses	11,392,335.74
Interest (including interest on funded debt and reserves less interest earned on investments)	13,750,632.31
Provision for depreciation	3,004,734.75
Provision for contingencies and obsolescence	1,160,722.80
Provision for frequency standardization	6,393,158.21
Provision for stabilization of rates	....
Provision for sinking fund	3,472,640.50
	52,395,180.60
Cost of power supplied to rural power districts by systems	*5,740,269.29*
Total	46,654,911.31
AMOUNTS RECEIVED FROM OR BILLED AGAINST MUNICIPALITIES AND OTHER CUSTOMERS:	
Municipalities (at interim rates)	34,955,630.15
Rural power districts	....
Companies	12,338,249.63
Mining area	....
Local distribution systems	132,206.84
Total	47,426,086.62
Excess or deficiency of amounts received or billed over cost of power	771,175.31

Rural power district:		
Excess of costs over amounts billed for the year appropriated from the rural power district rates suspense account		$ 1,729,674.26
Municipalities:		
Excess of amounts billed over cost of power credited to municipalities on annual adjustment of cost of power:		
Southern Ontario system	$ 771,175.31	
Thunder Bay system	28,100.99	
		799,276.30
		$ 930,397.96

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

For the Year Ended October 31, 1949

Thunder Bay system	Distribution in rural power districts	Total
$ c.	$ c.	$ c.
1,407.21		13,222,363.50
1,018,614.31	4,182,444.43	16,593,394.48
1,566,427.46	1,475,536.42	16,792,596.19
305,312.60	701,864.35	4,011,911.70
315,075.42	175,465.01	1,651,263.23
		6,393,158.21
35,147.30		35,147.30
393,071.71	372,650.87	4,238,363.08
3,635,056.01	6,907,961.08	
41,990.66	5,782,259.95	
3,593,065.35	12,690,221.03	62,938,197.69
1,079,159.95		36,034,790.10
	10,960,546.77	10,960,546.77
1,908,181.68		14,246,431.31
633,824.71		633,824.71
		132,206.84
3,621,166.34	10,960,546.77	62,007,799.73
28,100.99	*1,729,674.26*	*930,397.96*

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
POWER PLANTS	$ c.	$ c.	$ c.	$ c.
Niagara division:				
Niagara river:				
Queenston-Chippawa	1,699.47	47,939,722.97	28,703,163.55	76,644,585.99
Ontario Power		7,281,151.42	14,440,029.89	21,721,181.31
Toronto Power	1,853.90	3,823,379.60	7,625,168.44	11,450,401.94
Weir		416,326.62		416,326.62
Ottawa river:				
Chats Falls	109,255.34	817,741.54	6,374,589.83	7,301,586.71
Chenaux	12,862,214.50			12,862,214.50
Des Joachims	47,546,854.86			47,546,854.86
La Cave	9,918,277.40			9,918,277.40
Power sites, etc	786,242.82			786,242.82
Welland canal:				
DeCew Falls	208,273.70	9,088,631.80	17,134,544.97	26,431,450.47
Long Lac diversion		258,400.78	621,009.48	879,410.26
Ogoki diversion		3,290,050.04	1,743,247.84	5,033,297.88
Diesel generation			215,824.08	215,824.08
Steam generation	7,571,169.26			7,571,169.26
Georgian Bay division:				
Muskoka river: (below lake)				
Bala No. 1 and No. 2		69,120.64	43,379.34	112,499.98
Ragged Rapids	145.37	70,889.49	1,258,607.28	1,329,642.14
Big Eddy		170,434.74	1,118,218.39	1,288,653.13
Land and water rights		17,224.03		17,224.03
Severn river:				
Wasdells	37,668.68	13,752.32	177,252.06	228,673.06
Big Chute	4,680.61	178,040.48	562,398.34	745,119.43
Beaver river:				
Eugenia		142,538.73	1,171,266.15	1,313,804.88
Saugeen river:				
Hanover		10,000.00		10,000.00
Walkerton		100,461.31	104,948.55	205,409.86
Muskoka river: (above lake)				
South Falls	79.73	17,934.95	565,781.53	583,796.21
Trethewey Falls		51,549.45	305,605.47	357,154.92
Hanna Chute		33,389.30	207,373.10	240,762.40
Hollow Lake dam		18,425.43	29,540.16	47,965.59
Sauble river:				
Lands and rights		4,200.00		4,200.00
Credit river:				
Caledon		4,850.00	27,795.02	32,645.02
Miscellaneous		3.00		3.00
Eastern Ontario division:				
Fenelon river:				
Fenelon Falls		60,000.00	102,849.88	162,849.88
Otonabee river:				
Auburn		31,400.00	302,948.11	334,348.11
Lakefield		19,620.05	216,651.44	236,271.49
Trent river:				
Heely Falls	676.72		1,205,664.61	1,206,341.33
Seymour	1,376.99		307,463.79	308,840.78
Ranney Falls		18,596.20	1,416,784.95	1,435,381.15
Crow river		1,000.00		1,000.00

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
POWER PLANTS—(Continued)	$ c.	$ c.	$ c.	$ c.
Trent river—continued				
Hagues Reach			572,466.30	572,466.30
Meyersburg	312.59		837,281.91	837,594.50
Sills Island		38,679.36	282,696.83	321,376.19
Frankford	12,955.23		252,879.93	265,835.16
Sidney			249,850.46	249,850.46
Mississippi river:				
High Falls	452.48	13,154.84	706,785.83	720,393.15
Galetta		20,000.00	138,573.55	158,573.55
Madawaska river:				
Barrett Chute		712,352.73	4,002,078.96	4,714,431.69
Calabogie		79,825.74	679,544.48	759,370.22
Stewartville		766,796.29	10,641,331.21	11,408,127.50
Bark Lake dam		610,309.25	799,933.87	1,410,243.12
Kaminiskeg Lake dam		24,980.38	1,795.46	26,775.84
Undeveloped sites	176,081.66	800,000.00		976,081.66
Miscellaneous	1,805.98	280.49	34,264.35	36,350.82
Intangible		2,217,761.29		2,217,761.29
	79,242,077.29	79,232,975.26	105,181,589.39	263,656,641.94
TRANSFORMER STATIONS				
Niagara division	9,817,451.66		72,004,221.79	81,821,673.45
Georgian Bay division	362,003.06		3,583,406.47	3,945,409.53
Eastern Ontario division	542,054.67		8,145,974.16	8,688,028.83
	10,721,509.39		83,733,602.42	94,455,111.81
TRANSMISSION LINES				
Niagara division	17,964,716.31	9,678,695.51	39,437,267.71	67,080,679.53
Georgian Bay division	208,101.47	239,253.04	4,484,856.44	4,932,210.95
Eastern Ontario division	440,379.17	1,342,602.80	11,154,560.79	12,937,542.76
	18,613,196.95	11,260,551.35	55,076,684.94	84,950,433.24
LOCAL SYSTEMS				
Niagara division			86,772.54	86,772.54
Georgian Bay division	3,520.93		169,740.27	173,261.20
	3,520.93		256,512.81	260,033.74
COMMUNICATIONS				
Southern Ontario system	279,778.75		3,085,749.63	3,365,528.38
Sub-total	108,860,083.31	90,493,526.61	247,334,139.19	446,687,749.11
RURAL POWER DISTRICT				
H-E.P.C. investment	2,819,338.20	37,559.97	38,369,445.05	41,226,343.22
Government grants	2,779,834.64		37,748,365.44	40,528,200.08
	5,599,172.84	37,559.97	76,117,810.49	81,754,543.30
	114,459,256.15	90,531,086.58	323,451,949.68	528,442,292.41

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THUNDER BAY SYSTEM

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	$ c.	$ c.	$ c.	$ c.
POWER PLANTS:				
Nipigon river:				
Cameron Falls	66,590.21	857,418.84	9,120,744.53	10,044,753.58
Alexander	1,082.32	77,090.06	6,998,322.71	7,076,495.09
Pine Portage	18,496,478.03			18,496,478.03
Virgin Falls dam		55,450.41	426,736.74	482,187.15
Aguasabon river:				
Aguasabon		937,004.94	11,818,065.11	12,755,070.05
Kaministiquia river:				
Kakabeka Falls		1,006,126.86	3,664,561.10	4,670,687.96
	18,564,150.56	2,933,091.11	32,028,430.19	53,525,671.86
TRANSFORMER STATIONS	5,890.68		1,705,478.43	1,711,369.11
TRANSMISSION LINES	800,815.70	341,946.90	3,834,094.95	4,976,857.55
COMMUNICATIONS	5,555.07		134,237.02	139,792.09
LOCAL SYSTEMS	3,243.60		119,078.56	122,322.16
Sub-total	19,379,655.61	3,275,038.01	37,821,319.15	60,476,012.77
RURAL POWER DISTRICT:				
H-E.P.C. investment	107,908.17		695,207.29	803,115.46
Government grants	107,908.16		695,167.29	803,075.45
	215,816.33		1,390,374.58	1,606,190.91
	19,595,471.94	3,275,038.01	39,211,693.73	62,082,203.68

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS:	$ c.	$ c.	$ c.	$ c.
Toronto:				
University avenue	287,377.32	458,909.07	3,634,635.50	4,380,921.89
210 Bloor street west	238,774.82			238,774.82
	526,152.14	458,909.07	3,634,635.50	4,619,696.71
SERVICE BUILDINGS AND EQUIPMENT:				
Buildings:				
Toronto:				
Strachan avenue buildings			192,993.78	192,993.78
1379 Bloor street west			50,000.00	50,000.00
Islington service centre	2,014,173.54	156,950.00	2,066,647.00	4,237,770.54
Cobourg			4,879.24	4,879.24
Hamilton		550,000.00		550,000.00
Equipment:				
Toronto			1,105,659.20	1,105,659.20
Regions			124,960.44	124,960.44
	2,014,173.54	706,950.00	3,545,139.66	6,266,263.20
	2,540,325.68	1,165,859.07	7,179,775.16	10,885,959.91

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

FIXED ASSETS—Summary, October 31, 1949

System or Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	$ c.	$ c.	$ c.	$
Southern Ontario system	108,860,083.31	90,493,526.61	247,334,139.19	446,687,749.11
Thunder Bay system	19,379,655.61	3,275,038.01	37,821,319.15	60,476,012.77
Service and administrative buildings and equipment	2,540,325.68	1,165,859.07	7,179,775.16	10,885,959.91
Rural power districts	5,814,989.17	37,559.97	77,508,185.07	83,360,734.21
	136,595,053.77	94,971,983.66	369,843,418.57	601,410,456.00
Less grants-in-aid of construction—Province of Ontario for rural power districts				41,331,275.53
				560,079,180.47

THE HYDRO-ELECTRIC POWER

STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of year	Expenditures during year
SOUTHERN ONTARIO SYSTEM		
Power Plants		
Niagara division:	$.	$ c.
Queenston-Chippawa	76,668,045.15	656.84
Ontario Power	21,721,681.31	
Toronto Power	11,441,891.31	18,510.63
Niagara Weir	394,000.00	22,326.62
Chats Falls	7,235,583.15	92,479.93
Chenaux	3,613,084.70	9,249,129.80
Des Joachims	25,155,967.49	22,390,887.37
La Cave	787,761.32	9,130,516.08
DeCew Falls	25,987,750.86	497,411.74
Ogoki diversion	4,970,465.48	62,832.40
Steam generation	25,699.35	7,545,469.91
Diesel generation		215,824.08
Other properties	1 665,475.57	177.51
Georgian Bay division:		
Eugenia	1,316,382.68	4,527.20
Ragged Rapids	1,333,544.41	314.73
Big Eddy	1,293,653.13	
Big Chute	688,006.77	58,856.66
South Falls	571,648.82	50,212.01
Trethewey Falls	357,267.92	
Other properties	874,345.03	29,778.57
Eastern Ontario division:		
Hagues Reach	573,262.30	
Auburn	334,947.47	31.80
Seymour	316,297.36	957.42
Ranney Falls	1,438,177.15	
Heely Falls	1,210,765.49	908.78
Meyersburg	838,166.32	12.18
High Falls	716,199.88	6,661.27
Barrett Chute	4,743,254.82	
Bark Lake dam	1,410,468.30	
Calabogie	760,394.22	
Stewartville	10,939,153.63	468,973.87
Sills Island	320,313.63	1,533.56
Intangible and undeveloped sites	3,017,761.29	176,081.66
Other properties	1,149,750.50	8,820.33
	213,871,166.81	50,033,892.95
Transformer Stations		
Niagara division	69,043,968.62	13,577,872.80
Georgian Bay division	3,528,290.25	508,072.20
Eastern Ontario division	7,595,079.15	1,267,348.13
	80,167,338.02	15,353,293.13
Transmission Lines		
Niagara division	50,792,083.79	17,734,996.00
Georgian Bay division	4,750,658.76	376,206.47
Eastern Ontario division	12,772,884.00	483,831.28
	68,315,626.55	18,595,033.75
Communications		
Southern Ontario system	144,058.94	851,267.77

COMMISSION OF ONTARIO

During Year Ended October 31, 1949

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for depreciation and contingencies	
$ c.	$ c.	$ c.	$ c.
19,146.00	*4,970.00*	....	76,644,585.99
300.00	....	*200.00*	21,721,181.31
....	....	*10,000.00*	11,450,401.94
....	....	....	416,326.62
25,105.00	*15.37*	*1,356.00*	7,301,586.71
....	....	....	12,862,214.50
....	....	....	47,546,854.86
....	....	....	9,918,277.40
22,058.00	*30,585.28*	*1,068.85*	26,431,450.47
....	....	....	5,033,297.88
....	....	....	7,571,169.26
....	....	....	215,824.08
....	....	....	1,665,653.08
7,100.00	....	*5.00*	1,313,804.88
4,217.00	....	....	1,329,642.14
5,000.00	....	....	1,288,653.13
1,744.00	....	....	745,119.43
2,374.00	....	*35,690.62*	583,796.21
113.00	....	....	357,154.92
909.02	*3,167.64*	*664.00*	899,382.94
796.00	....	....	572,466.30
627.00	*4.16*	....	334,348.11
7,414.00	....	*1,000.00*	308,840.78
2,796.00	....	....	1,435,381.15
3,318.00	*5,790.94*	*2,860.00*	1,206,341.33
584.00	....	....	837,594.50
834.00	....	*1,634.00*	720,393.15
27,093.00	*1,730.13*	....	4,714,431.69
....	*225.18*	....	1,410,243.12
1,024.00	....	....	759,370.22
....	....	....	11,408,127.50
316.00	....	*155.00*	321,376.19
....	....	....	3,193,842.95
14,636.80	*2,162.83*	*4,264.00*	1,137,507.20
140,868.82	*48,651.53*	*58,897.47*	263,656,641.94
333,104.00	*153,056.54*	*314,007.43*	81,821,673.45
19,614.00	*13,315.65*	*58,023.27*	3,945,409.53
48,548.00	*77,855.71*	*47,994.74*	8,688,028.83
401,266.00	*244,227.90*	*420,025.44*	94,455,111.81
1,302,258.05	*32,208.20*	*111,934.01*	67,080,679.53
165,652.89	*2,886.36*	*26,115.03*	4,932,210.95
263,484.82	*440.70*	*55,247.00*	12,937,542.76
1,731,395.76	*35,535.26*	*193,296.04*	84,950,433.24
2,396,259.11	*142.59*	*25,914.85*	3,365,528.38

STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of year	Expenditures during year
SOUTHERN ONTARIO SYSTEM—(Continued)		
LOCAL SYSTEMS	$ c.	$ c.
Niagara division	85,168.45	1,604.09
Georgian Bay division	146,725.99	26,546.21
Eastern Ontario division	38,581.38	6,106.17
	270,475.82	34,256.47
Sub-total	362,768,666.14	84,867,744.07
RURAL POWER DISTRICT		
H-E.P.C. investments	32,310,912.24	9,926,858.15
Government grants	31,774,651.40	9,764,975.83
	64,085,563.64	19,691,833.98
RURAL LINES		
Georgian Bay division	922.02	....
Southern Ontario system—Total	426,855,151.80	104,559,578.05
THUNDER BAY SYSTEM		
POWER PLANTS	35,120,090.00	18,478,214.67
TRANSFORMER STATIONS	1,582,324.36	131,303.02
TRANSMISSION LINES	4,237,683.84	795,989.19
LOCAL SYSTEM	107,591.08	14,824.08
COMMUNICATIONS	40,696.86	42,279.75
Sub-total	41,088,386.14	19,462,610.71
RURAL POWER DISTRICT		
H-E.P.C. investments	444,593.32	387,400.34
Government grants	444,593.32	387,360.33
	889,186.64	774,760.67
Thunder Bay system—Total	41,977,572.78	20,237,371.38
ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT		
ADMINISTRATIVE BUILDINGS:		
Toronto—University avenue	3,733,717.42	677,757.47
—210 Bloor street west	....	238,774.82
	3,733,717.42	916,532.29
SERVICE BUILDINGS AND EQUIPMENT:		
Buildings:		
Toronto—Strachan avenue	781,253.48	502.00
—1379 Bloor street west	50,000.00	....
Islington—service centre	1,617,839.61	2,619,930.93
Other properties	572,245.08	....
Equipment—Toronto	....	499,531.66
—Regions	....	124,960.44
	3,021,338.17	3,244,925.03
Total	6,755,055.59	4,161,457.32
Grand total	475,587,780.17	128,958,406.75
Less grants-in-aid of construction:		
Province of Ontario for rural power districts	32,219,244.72	9,112,030.81
Total fixed assets	443,368,535.45	119,846,375.94

COMMISSION OF ONTARIO
During Year Ended October 31, 1949

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for depreciation and contingencies	
$ c.	$ c.	$ c.	$ c.
			86,772.54
		11.00	173,261.20
	34,108.60	*10,578.95*	
	34,108.60	*10,589.95*	260,033.74
122,728.53	*362,665.88*	*708,723.75*	446,687,749.11
60,903.26	*913,573.35*	*36,950.56*	41,226,343.22
60,903.25	*913,573.34*	*36,950.56*	40,528,200.08
121,806.51	*1,827,146.69*	*73,901.12*	81,754,543.30
922.02			
	2,189,812.57	*782,624.87*	528,442,292.41
	1,534.50	*71,098.31*	53,525,671.86
	45.61	*2,212.66*	1,711,369.11
56,815.48			4,976,857.55
		93.00	122,322.16
56,815.48			139,792.09
	1,580.11	*73,403.97*	60,476,012.77
	28,576.50	*301.70*	803,115.46
	28,576.50	*301.70*	803,075.45
	57,153.00	*603.40*	1,606,190.91
	58,733.11	*74,007.37*	62,082,203.68
		**30,553.00*	4,380,921.89
			238,774.82
		30,553.00	4,619,696.71
588,761.70			192,993.78
			50,000.00
			4,237,770.54
17,365.84			554,879.24
606,127.54			1,105,659.20
			124,960.44
			6,266,263.20
		30,553.00	10,885,959.91
	2,248,545.68	*887,185.24*	601,410,456.00
			41,331,275.53
	2,248,545.68	*887,185.24*	560,079,180.47

*Charged to Operations.

Depreciation......	$*515,468.16*
Contingencies.....	*341,164.08*
Operations........	*30,553.00*

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

RURAL POWER DISTRICTS

CAPITAL EXPENDITURES AND GRANTS—Summary at October 31, 1949

Statement showing the total capital expenditures in Rural Power Districts to October 31, 1949; the grants payable to the Commission by the Province of Ontario in respect thereto; and the amounts paid to the Commission on account of such grants to October 31, 1949

	Accumulated total to October 31, 1948	During the year	Accumulated total to October 31, 1949
	$ c.	$ c.	$ c.
Total capital expenditures less retirements—			
Southern Ontario district	64,085,563.64	17,668,979.66	81,754,543.30
Thunder Bay district	889,186.64	717,004.27	1,606,190.91
	64,974,750.28	18,385,983.93	83,360,734.21
Northern Ontario Properties district	2,622,233.78	3,348,765.49	5,970,999.27
	67,596,984.06	21,734,749.42	89,331,733.48
Less portion of expenditures not subject to Provincial grant*—			
Southern Ontario district	536,260.84	161,882.30	698,143.14
Thunder Bay district	....	40.01	40.01
Northern Ontario Properties district	299,166.74	163,724.79	462,891.53
	*835,427.58	325,647.10	1,161,074.68
Balance of expenditures less retirements subject to Provincial grants (all districts)	66,761,556.48	21,409,102.32	88,170,658.80
Grants payable by the Province as authorized by Order-in-Council (50%)—			
Southern Ontario district and Thunder Bay district	32,219,244.72	9,112,030.81	41,331,275.53
Northern Ontario Properties district	1,161,533.52	1,592,520.35	2,754,053.87
	33,380,778.24	10,704,551.16	44,085,329.40
Amounts paid by the Province to the Commission on account of such authorized grants	32,797,103.96	3,902,568.00	36,699,671.96
Balance owing by the Province	583,674.28	6,801,983.16	7,385,657.44

*Grants not paid by the Province in respect of—generating plant, transformer station and transmission line (Manitoulin), a summer resort, street-lighting systems, cost of pole replacements in excess of original installation, service buildings and amounts paid for business already established.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with The Provincial Treasurer of the Province of Ontario

As at October 31, 1949

ADVANCES FROM AND REPAYMENTS TO THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Southern Ontario and Thunder Bay systems operated on a "cost basis"
	$ c.	$ c.	$ c.
Balance of advance repayable under the 1935 debt retirement plan	189,994,133.63	8,254,050.08	181,740,083.55
Repayment of Advances—1934 to 1949:			
Cash repayments made by the Commission under new retirement plan, equal to the maturities in the period November 1, 1934 to October 31, 1949, of Province of Ontario bonds allocated as issued for the Commission's purposes—			
Total to October 31, 1948....$116,129,774.44			
During the year ended October 31, 1949 2,735,982.87	118,865,757.31	3,467,586.54	115,398,170.77
Balance of advances at October 31, 1949	71,128,376.32	4,786,463.54	66,341,912.78
Payable in the following currencies:			
Canadian	1,090,029.15	116,913.60	973,115.55
Canadian or United States	8,718,026.01	4,799.73	8,713,226.28
Canadian, United States or Sterling	61,320,321.16	4,664,750.21	56,655,570.95
	71,128,376.32	4,786,463.54	66,341,912.78

THE HYDRO-ELECTRIC POWER

FUNDED DEBT as at

(Guaranteed as to principal and

Description	Date of maturity	Date of issue
2 % Debentures	Jan. 1, 1950	Jan. 1, 1945
3 % Serial debentures	May 1, 1950/52	May 1, 1942
3 % Debentures	Feb. 1, 1951	Feb. 1, 1943
3 % "	Jan. 1, 1953	Jan. 1, 1943
3¼% "	Feb. 1, 1953	Feb. 1, 1938
2½% "	Nov. 1, 1953	Nov. 1, 1948
2½% "	July 15, 1954	July 15, 1949
2 % "	April 1, 1956	April 1, 1947
4 % "	Aug. 1, 1957	Aug. 1, 1917
4 % "	June 1, 1958	June 1, 1918
4 % "	Dec. 1, 1958	Dec. 1, 1918
3 % "	Jan. 1, 1960	Jan. 1, 1945
3 % "	Mar. 1, 1963	Mar. 1, 1948
3 % "	July 2, 1964	July 2, 1948
3 % "	Dec. 15, 1965	Dec. 15, 1948
2¾% "	April 1, 1967	April 1, 1947
3 % "	April 1, 1967	April 1, 1949
3 % "	Jan. 15, 1968	July 15, 1949
2¾% "	Oct. 1, 1968	Oct. 1, 1947
4¾% "	Jan. 1, 1970	Jan. 1, 1930
2¾% "	June 1, 1971	June 1, 1946
Total Funded Debt (at par of exchange)		

Summary of Changes in Funded Debt during year ended October 31, 1949

Outstanding at October 31, 1948	$200,539,000.00
Redemptions during the year	4,875,000.00
	$195,664,000.00
New bond issues during the year	150,000,000.00
Outstanding at October 31, 1949	$345,664,000.00

COMMISSION OF ONTARIO

October 31, 1949

interest by the Province of Ontario)

Principal outstanding October 31, 1949	Where payable	Remarks
$ c.		
5,000,000.00	Canada	
3,000,000.00	Canada	$1,000,000.00 maturing annually.
6,000,000.00	Canada	
5,000,000.00	N.Y.	Callable on or after Jan. 1, 1951 at 101.
9,000,000.00	Canada	Callable on or after Feb. 1, 1950 at 100.
10,000,000.00	Canada	
5,000,000.00	Canada	
10,000,000.00	Canada	
8,000,000.00	C., N.Y., L.	
200,000.00	Toronto	
100,000.00	Toronto	
7,500,000.00	Canada	Callable on or after Jan. 1, 1955 at 100.
35,000,000.00	Canada	Callable in whole or in part on or after Mar. 1, 1961 at 100.
40,000,000.00	Canada	Callable in whole or in part on or after July 2, 1960 at 100.
45,000,000.00	Canada	Callable in whole or in part on or after Dec. 15, 1963 at 100.
15,000,000.00	Canada	Callable in whole or in part on or after April 1, 1964 at 100.
45,000,000.00	Canada	Callable in whole or in part on or after April 1, 1965 at 100.
45,000,000.00	Canada	Callable in whole or in part on or after Jan. 15, 1966 at 100.
20,000,000.00	Canada	Callable in whole or in part on or after Oct. 1, 1965 at 100.
11,864,000.00	Canada	
20,000,000.00	Canada	Callable in whole or in part on or after June 1, 1961 at 100.
345,664,000.00		

Funded Debt issued to finance:

Southern Ontario and Thunder Bay systems	$287,464,000.00
Northern Ontario Properties	58,200,000.00
	$345,664,000.00

Payable in the following currencies:

Canadian	$332,664,000.00
Canadian, United States or Sterling	8,000,000.00
United States	5,000,000.00
	$345,664,000.00

THE HYDRO-ELECTRIC POWER

POWER ACCOUNTS RECEIVABLE

System or property	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1949		Net total for wholesale consumers
		Charge	Credit	
	$ c.	$ c.	$ c.	$ c.
SOUTHERN ONTARIO SYSTEM:				
Municipalities	4,057,876.44	404,122.26	1,175,297.57	3,286,701.13
Companies	773,147.16	....	....	773,147.16
Local and rural	....	....	....	....
	4,831,023.60	404,122.26	1,175,297.57	4,059,848.29
THUNDER BAY SYSTEM:				
Municipalities	187,644.33	....	28,100.99	159,543.34
Companies	258,507.36	....	....	258,507.36
Local and rural	....	....	....	....
	446,151.69	....	28,100.99	418,050.70
Grand totals	5,277,175.29	404,122.26	1,203,398.56	4,477,898.99

SUNDRY ACCOUNTS RECEIVABLE

Arising from construction of works, sale of electrical equipment, etc.	....	....	....	....

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

DEPRECIATION RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	$ c.	$ c.	$ c.	$ c.
Balances at November 1, 1948	75,270,450.48	5,579,448.60	959,113.53	81,809,012.61
Add:				
Interest at 4% on reserve balances	3,010,818.02	223,177.94	24,340.02	3,258,335.98
Provision in the year—direct	3,695,533.03	316,378.67	....	4,011,911.70
—indirect	....	....	129,609.30	129,609.30
Adjustments in respect of equipment transferred	....	6,406.58	....	6,406.58
Sub-total	81,976,801.53	6,125,411.79	1,113,062.85	89,215,276.17
Deduct:				
Amount withdrawn for renewals	179,210.37	1,332.04	....	180,542.41
Amount withdrawn in respect of assets removed from service	490,356.48	25,111.68	....	515,468.16
Excess reserve accumulated against assets removed from service—transferred to contingency reserve	126,726.20	....	....	126,726.20
Sundry charges	5,398.00	....	....	5,398.00
Balances at October 31, 1949	81,175,110.48	6,098,968.07	1,113,062.85	88,387,141.40

COMMISSION OF ONTARIO

—October 31, 1949

Retail power consumers local and rural districts	Net total of power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
$ c.	$ c.	$ c.	$ c.	$ c.
....	3,286,701.13	3,479,037.79	192,336.66	11,989.81
....	773,147.16	888,616.97	115,469.81	....
2,265,544.19	2,265,544.19	2,265,544.19	....	17,899.40
2,265,544.19	6,325,392.48	6,633,198.95	307,806.47	29,889.21
....	159,543.34	171,572.51	12,029.17	....
....	258,507.36	258,507.36	....	....
28,061.26	28,061.26	28,061.26	....	578.01
28,061.26	446,111.96	458,141.13	12,029.17	578.01
2,293,605.45	6,771,504.44	7,091,340.08	319,835.64	30,467.22

—October 31, 1949

		$ c.		$ c.
....	....	921,276.19	....	21,263.79

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

CONTINGENCIES AND OBSOLESCENCE RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay system	Totals for power undertakings operated on a "cost basis"
	$ c.	$ c.	$ c.
Balances at November 1, 1948	22,392,518.48	6,289,560.93	28,682,079.41
Add:			
Interest at 4% on reserve balances	892,522.51	202,676.96	1,095,199.47
Provision in the year	1,333,421.29	317,841.94	1,651,263.23
Adjustments re power purchased in prior years	....	43,692.96	43,692.96
Excess depreciation reserve accumulated against assets removed from service, transferred from depreciation reserve.	126,726.20	....	126,726.20
Adjustments arising from the transfer of equipment, etc.	20,279.19	....	20,279.19
Sub-total	24,765,467.67	6,853,772.79	31,619,240.46
Deduct:			
Contingencies met with during the year	575,208.00	5,475.74	580,683.74
Excess of cost of fixed assets retired over accumulated depreciation reserve	292,268.39	48,895.69	341,164.08
Balances at October 31, 1949	23,897,991.28	6,799,401.36	30,697,392.64

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FREQUENCY STANDARDIZATION RESERVE—October 31, 1949

	$ c.
Balance at November 1, 1948	54,217,144.83
Interest at 4% on monthly balances	2,084,582.07
Provision in the year as per cost statement	6,393,158.21
Industrial consumers' contributions	186.00
	62,695,071.11
Less expenditures for conversion expenses	3,105,385.68
Balance at October 31, 1949	59,589,685.43

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

STABILIZATION OF RATES RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay		Totals for power undertakings operated on a "cost basis"
		System	Mining area	
	$ c.	$ c.	$ c.	$ c.
Balances at November 1, 1948	20,778,760.94	514,058.70	487,529.23	21,780,348.87
Interest at 4% on reserve balances	831,150.44	20,562.35	19,501.17	871,213.96
Appropriation in the year as per cost statements	....	....	35,147.30	35,147.30
Balances at October 31, 1949	21,609,911.38	534,621.05	542,177.70	22,686,710.13

NOTE: The above amount of $21,609,911.38 includes special accounts of $1,738,983.10, $413,639.43 and $780,109.10 pertaining to municipalities of the Niagara, Georgian Bay and Eastern Ontario divisions respectively.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

SINKING FUND RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	$ c.	$ c.	$ c.	$ c.
Balances at November 1, 1948	101,508,198.21	5,612,199.69	1,096,702.53	108,217,100.43
Interest at 4% on reserve balances	4,060,327.93	224,487.99	43,868.10	4,328,684.02
Provision in the year—direct	3,839,465.09	398,897.99	....	4,238,363.08
—indirect	....	....	62,240.19	62,240.19
	109,407,991.23	6,235,585.67	1,202,810.82	116,846,387.72
Less adjustment in the year	369.89	....	....	369.89
Balances at October 31, 1949	109,407,621.34	6,235,585.67	1,202,810.82	116,846,017.83

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

STATEMENTS FOR MUNICIPALITIES RECEIVING POWER UNDER COST CONTRACTS

For the year ended October 31, 1949

STATEMENTS FOR EACH SYSTEM

Cost of Power	Credit or Charge Summary
Sinking Fund	Rural Operating

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Acton	27.50	36.80	376,148.28	2,238.9	1,670.2	12,726.53	12,841.83
Agincourt	27.50	36.80	86,508.65	475.7	354.9	2,704.26	3,104.89
Ailsa Craig	35.50	47.50	42,677.83	215.4	160.7	1,224.50	2,053.05
Alexandria	39.00	52.20	110,756.44	570.9	425.9	3,245.19	4,307.53
Alliston	37.50	50.20	132,263.65	794.2	592.5	4,514.71	5,611.81
Almonte	28.00	37.50	139,670.21	802.1	598.4	4,559.66	5,459.81
Alvinston	39.00	52.20	52,480.77	176.3	131.5	1,002.00	1,919.77
Amherstburg	31.50	42.20	347,439.41	1,748.8	1,304.6	9,940.75	12,200.81
Ancaster Twp	26.00	34.80	109,841.27	599.3	447.1	3,406.80	4,763.92
Apple Hill	39.00	52.20	9,856.74	58.7	43.8	333.75	406.67
Arkona	39.00	52.20	40,513.62	135.5	101.1	770.36	949.99
Arnprior	25.00	33.50	292,961.74	2,122.8	1,583.6	12,066.75	11,911.88
Arthur	39.00	52.20	92,202.07	330.4	246.5	1,878.27	2,041.20
Athens	39.00	52.20	56,927.85	180.6	134.7	1,026.39	752.10
Aurora	27.00	36.10	337,478.00	2,150.5	1,604.3	12,224.39	10,254.07
Aylmer	29.00	38.80	301,758.12	1,673.1	1,248.1	9,510.23	11,252.06
Ayr	32.00	42.90	78,284.95	418.5	312.2	2,378.89	3,416.60
Baden	26.50	35.50	122,127.81	756.3	564.2	4,299.07	4,321.80
Barrie	26.50	35.50	759,659.64	6,265.4	4,674.0	35,614.80	32,368.07
Bath	39.00	52.20	40,469.89	86.3	64.4	490.71	(282.88)
Beachville	27.50	36.80	151,662.17	875.9	653.4	4,978.76	5,052.00
Beamsville	25.00	33.50	123,306.34	829.9	619.1	4,717.40	5,083.64
Beaverton	36.00	48.20	75,797.92	445.6	332.4	2,532.81	3,174.55
Beeton	39.00	52.20	40,833.99	176.5	131.7	1,003.52	1,659.36
Belle River	31.50	42.20	78,136.56	377.3	281.5	2,144.97	2,919.64
Belleville	22.00	29.40	1,385,276.65	11,190.9	8,348.4	63,612.89	51,796.93
Blenheim	30.50	40.80	159,020.82	805.1	600.6	4,576.43	6,769.39
Bloomfield	39.00	52.20	53,389.30	229.6	171.3	1,305.30	2,214.36
Blyth	39.00	52.20	67,604.44	294.8	219.9	1,675.59	1,673.48
Bobcaygeon	39.00	52.20	89,060.30	277.6	207.1	1,577.80	2,300.20
Bolton	31.00	41.50	61,862.37	320.0	238.7	1,818.84	2,215.89
Bothwell	35.50	47.50	45,354.04	199.3	148.7	1,133.06	2,227.09
Bowmanville	26.00	34.80	635,319.22	4,059.1	3,028.1	23,073.39	24,477.01
Bradford	39.00	52.20	112,535.42	669.7	499.6	3,806.84	4,658.30
Braeside	27.00	36.10	39,208.81	263.3	196.4	1,496.53	1,437.21
Brampton	25.00	33.50	657,024.20	4,538.6	3,385.8	25,799.00	21,777.19
Brantford	22.50	30.10	4,145,709.09	28,243.9	21,069.9	160,547.74	137,553.58
Brantford Twp	27.00	36.10	509,701.51	3,404.0	2,539.4	19,349.64	17,663.92
Brechin	39.00	52.20	13,861.11	60.6	45.2	344.41	88.06
Bridgeport	29.00	38.80	61,435.13	333.1	248.5	1,893.51	1,859.41

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$
15,310.40	3,522.06	7,491.79	3,866.43	139.04	55,898.08	61,464.18	5,566.10
3,521.17	844.50	1,603.10	889.22	29.54	12,696.68	13,061.85	365.17
1,737.12	432.34	738.89	438.69	13.38	6,637.97	7,635.16	997.19
4,508.13	1,390.76	1,925.05	1,138 73	35.45	16,550.84	22,233.89	5,683.05
5,383.54	1,528.13	2,586.68	1,359.53	49.32	21,033.72	29 745.64	8,711.92
5,685.01	1,561.61	2,709.52	1,436.03	49.81	21 461.45	22,438.31	976.86
2,136.13	588.81	667.94	539.47	10.95	6.865.07	6,865.07	....
14,141.86	3,392.09	6,071.21	3,571.38	108.60	49,426.70	55,055.76	5,629.06
4,470.88	1,081.66	2,035.58	1,129.07	37.22	16,925.13	15,558.23	(1,366.90)
401.20	113.07	195.35	101.34	3.65	1,555.03	2,288.58	733.55
1,649.03	455.10	519.37	416.46	8.42	4,768.73	5,275.88	507.15
11,924.45	2,850.46	6,838.89	3,012.27	131.83	48,736.53	53,049.81	4,313.28
3,752.91	1,361.61	1,183.12	947.77	20.52	11,185.40	12,864.81	1,679.41
2,317.14	867.07	660.69	585.26	11.21	6,219.86	7,030.31	810.45
13,736.40	3,020.13	7,098.43	3,468.92	133.55	49,935.89	57,915.65	7,979.76
12,282.49	2,922.87	5,705.39	3,101.68	103.90	44,878.62	48,426.51	3,547.89
3,186.44	774.49	1,434.00	804.70	25.99	12,021.11	13,393.39	1,372.28
4,970.98	1,112.37	2,510.43	1,255.35	46.97	18,516.97	20,027.38	1,510.41
30,920.50	6,481.10	19,626.20	7,808.42	389.09	133,208.18	165,926.29	32,718.11
1,647.25	673.46	348.86	416.05	5.36	3,298.81	3,359.67	60.86
6,173.12	1,440.68	2,955.73	1,558.94	54.39	22,213.62	24,043.71	1,830.09
5,018.95	1,112.63	2,698.18	1,267.46	51.54	19,949.80	20,741.13	791.33
3,085.21	888.50	1,472.33	779.13	27.67	11,960.20	16,022.70	4,062.50
1,662.07	562.92	607.71	419.73	10.96	5,926.27	6,877.11	950.84
3,180.40	778.32	1,320.32	803.18	23.43	11,170.26	11,880.06	709.80
56,385.05	11,919.75	35,329.42	14,243.95	694.97	233,982.96	245,443.17	11,460.21
6,472.64	1,594.37	2,791.42	1,634.59	49.99	23,888.83	24,502.48	613.65
2,173.11	732.00	798.51	548.90	14.26	7,786.44	8,942.28	1,155.84
2,751.71	722.09	1,035.11	694.92	18.31	8,571.21	11,479.35	2,908.14
3,625.03	1,349.92	1,022.76	915.67	17.24	10,808.62	10,808.62	....
2,517.99	619.95	1,090.43	635.88	19.87	8,918.85	9,907.69	988.84
1,846.05	483.03	710.41	466.20	12.38	6,878.22	7,062.61	184.39
25,859.46	6,758.37	13,385.10	6,532.45	252.08	100,337.86	105,377.19	5,039.33
4,580.54	1,308.26	2,193.76	1,156.76	41.59	17,746.05	26,081.36	8,335.31
1,595.92	409.70	855.19	403.14	16.35	6,214.04	7,091.53	877.49
26,742.92	5,662.52	14,731.21	6 753.49	281.85	101,748.18	113,425.00	11,676.82
168,743.20	35,609.98	92,136.62	42,613.33	1,753.94	638,958.39	634,203.16	(4,755.23)
20,746.43	4,438.97	11,137.34	5,239.17	211.40	78,786.87	91,672.39	12,885.52
564.19	190.20	208.88	142.48	3.76	1,541.98	2,357.31	815.33
2,500.60	601.88	1,124.37	631.50	20.69	8,631.96	9,642.17	1,010.21

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Brigden	39.00	52.20	44,731.73	165.5	123.5	941.04	1,805.32
Brighton	27.50	36.80	122,547.68	783.0	584.1	4,450.66	4,853.65
Brockville	24.50	32.80	1,324,313.72	9,450.7	7,050.2	53,720.82	49,919.74
Brussels	39.00	52.20	81,636.05	364.7	272.1	2,073.34	2,707.40
Burford	28.00	37.50	78,321.31	468.2	349.3	2,661.59	3,080.53
Burgessville	39.00	52.20	26,800.92	115.0	85.8	653.78	430.54
Burlington	24.50	32.80	369,264.29	2,603.9	1,942.5	14,801.40	14,482.39
Caledonia	27.00	36.10	89,105.75	538.5	401.7	3,060.86	3,654.37
Campbellville	39.00	52.20	24,395.69	86.3	64.4	490.72	478.47
Cannington	34.50	46.20	59,198.20	374.3	279.2	2,127.44	2,564.19
Cardinal	26.50	35.50	84,989.60	537.5	401.0	3,055.57	2,991.82
Carleton Place	25.50	34.10	396,311.86	2,629.0	1,961.2	14,943.92	15,579.26
Cayuga	39.00	52.20	66,635.47	295.2	220.2	1,677.87	2,948.03
Chatham	25.50	34.10	1,738,371.15	10,778.9	8,041.0	61,270.58	56,802.34
Chatsworth	37.50	50.20	28,186.80	172.0	128.3	977.62	1,229.23
Chesley	31.00	41.50	145,391.39	992.4	740.3	5,640.91	6,282.10
Chesterville	30.00	40.20	116,992.08	728.7	543.6	4,142.10	4,136.09
Chippawa	21.50	28.80	54,447.70	504.3	376.2	2,866.56	2,066.16
Clifford	39.00	52.20	47,586.80	183.5	136.9	1,043.15	1,106.50
Clinton	30.50	40.80	227,212.19	1,256.3	937.2	7,141.24	8,597.08
Cobden	39.00	52.20	73,020.98	293.3	218.8	1,667.22	1,543.53
Cobourg	26.50	35.50	562,004.90	3,608.8	2,692.2	20,513.81	22,873.12
Colborne	30.50	40.80	66,003.33	409.9	305.8	2,330.14	2,676.17
Coldwater	33.50	44.90	22,181.60	156.3	116.6	888.47	1,156.30
Collingwood	27.50	36.80	493,714.03	3,613.3	2,695.5	20,539.09	21,150.44
Comber	38.50	51.60	54,006.21	167.4	124.9	951.71	1,304.45
Cookstown	35.50	47.50	24,745.05	160.2	119.5	910.56	1,103.16
Cottam	38.00	50.90	38,256.06	154.0	114.9	875.51	1,016.13
Courtright	39.00	52.20	36,939.94	89.7	66.9	509.76	281.08
Creemore	38.50	51.60	45,309.57	244.6	182.5	1,390.61	1,163.12
Dashwood	34.00	45.50	45,314.73	203.6	151.9	1,157.44	2,190.94
Delaware	29.00	38.80	22,357.27	134.9	100.7	767.31	882.59
Delhi	31.00	41.50	157,092.22	881.5	657.6	5,010.77	6,554.35
Deseronto	35.00	46.90	79,037.97	413.4	308.4	2,349.97	3,416.36
Dorchester	33.00	44.20	40,129.62	167.0	124.6	949.42	923.45
Drayton	39.00	52.20	52,190.87	179.9	134.2	1,022.57	1,219.40
Dresden	32.50	43.50	174,369.53	783.4	584.4	4,452.99	8,159.69
Drumbo	31.50	42.20	32,673.19	174.7	130.3	992.86	1,448.01
Dublin	39.00	52.20	21,415.32	91.7	68.4	521.19	714.70
Dundalk	31.00	41.50	53,717.04	346.5	258.5	1,969.71	2,379.49

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			Credited (Charged)
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,820.72	486.26	612.97	459.81	10.28	6,136.40	6,447.18	310.78
4,988.07	1,303.63	2,581.89	1,260.05	48.62	19,486.57	21,496.68	2,010.11
53,903.67	13,072.50	30,303.56	13,616.68	586.90	215,123.87	231,246.20	16,122.33
3,322.84	863.97	1,275.90	839.16	22.65	11,105.26	14,203.89	3,098.63
3,187.92	730.82	1,567.88	805.07	29.08	12,062.89	13,099.06	1,036.17
1,090.88	290.00	404.93	275.49	7.14	3,152.76	4,479.08	1,326.32
15,030.20	3,124.38	8,412.67	3,795.62	161.71	59,808.37	63,712.57	3,904.20
3,626.88	831.51	1,802.49	915.91	33.44	13,925.46	14,501.10	575.64
992.98	281.95	313.90	250.75	5.36	2,814.13	3,360.84	546.71
2,409.55	659.05	1,225.78	608.51	23.24	9,617.76	12,897.14	3,279.38
3,459.34	932.77	1,780.07	873.83	33.38	13,126.78	14,236.13	1,109.35
16,131.12	4,083.22	8,630.73	4,074.85	163.26	63,606.36	66,877.81	3,271.45
2,712.27	716.33	1,041.09	684.95	18.33	9,798.87	11,495.14	1,696.27
70,757.09	15,540.28	35,834.49	17,868.66	669.38	258,742.82	274,198.42	15,455.60
1,147.29	321.69	563.84	289.72	10.68	4,540.07	6,439.06	1,898.99
5,917.88	1,493.63	3,215.74	1,494.47	61.63	24,106.36	30,721.49	6,615.13
4,761.94	1,299.23	2,400.19	1,202.89	45.25	17,987.69	21,846.62	3,858.93
2,216.19	386.97	1,559.19	559.66	31.32	9,686.05	10,835.37	1,149.32
1,936.93	524.45	665.95	489.15	11.40	5,777.53	7,148.36	1,370.83
9,248.24	2,185.54	4,255.90	2,335.55	78.02	33,841.57	38,239.33	4,397.76
2,972.18	1,029.24	1,041.95	750.72	18.21	9,023.05	11,422.57	2,399.52
22,875.34	6,035.59	11,922.53	5,778.44	224.12	90,222.95	95,573.80	5,350.85
2,686.54	732.41	1,348.16	678.63	25.46	10,477.51	12,475.29	1,997.78
902.86	225.62	501.99	228.00	9.72	3,912.96	5,233.12	1,320.16
20,095.69	4,843.51	11,491.49	5,074.84	224.39	83,419.45	99,195.64	15,776.19
2,198.22	637.65	628.32	555.15	10.40	6,285.90	6,447.16	161.26
1,007.20	270.51	520.41	254.36	9.95	4,076.15	5,677.42	1,601.27
1,557.14	410.86	553.50	393.24	9.57	4,815.95	5,850.38	1,034.43
1,503.57	449.52	362.92	379.72	5.57	3,492.14	3,492.14	....
1,844.24	559.94	809.49	465.74	15.19	6,248.33	9,419.21	3,170.88
1,844.45	481.50	720.24	465.80	12.65	6,873.02	6,912.90	39.88
910.01	206.69	450.78	229.82	8.38	3,455.58	3,905.90	450.32
6,394.14	1,505.75	2,973.81	1,614.75	54.74	24,108.31	27,291.68	3,183.37
3,217.09	984.35	1,404.57	812.62	25.67	12,210.63	14,463.36	2,252.73
1,633.40	438.29	588.20	412.49	10.37	4,955.62	5,509.02	553.40
2,124.33	595.26	666.35	536.49	11.17	6,175.57	7,007.09	831.52
7,097.38	1,843.54	2,795.69	1,792.38	48.65	26,190.32	25,420.88	(769.44)
1,329.90	323.24	598.49	335.85	10.85	5,039.20	5,499.01	459.81
871.67	230.27	327.34	220.14	5.69	2,891.00	3,569.23	678.23
2,186.45	588.87	1,126.42	552.16	21.52	8,824.62	10,726.83	1,902.21

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Dundas	22.50	30.10	563,188.10	3,995.2	2,980.4	22,709.95	19,333.50
Dunnville	25.00	33.50	279,137.48	1,878.7	1,401.5	10,679.11	11,785.45
Durham	32.50	43.50	104,587.37	674.7	503.3	3,835.03	4,556.24
Dutton	31.50	42.20	60,144.56	307.8	229.6	1,749.50	2,373.86
East York Twp	24.00	32.10	2,432,843.37	16,783.3	12,520.2	95,401.03	77,659.34
Elmira	28.50	38.20	326,671.95	2,104.4	1,569.9	11,962.28	11,260.88
Elmvale	33.00	44.20	47,600.06	312.9	233.4	1,778.45	2,129.64
Elmwood	39.00	52.20	22,787.70	135.5	101.1	770.36	985.35
Elora	29.50	39.50	133,058.18	715.0	533.4	4,064.38	4,716.60
Embro	31.50	42.20	45,537.32	242.6	181.6	1,383.75	1,686.05
Erieau	39.00	52.20	66,863.22	266.9	199.1	1,517.10	2,199.03
Erie Beach	39.00	52.20	10,041.25	36.3	27.1	206.50	258.91
Essex	30.50	40.80	176,816.03	904.8	675.0	5,143.34	6,121.82
Etobicoke Twp	24.00	32.10	2,653,627.79	18,108.6	13,509.0	102,935.43	88,982.38
Exeter	30.00	40.20	238,762.67	1,317.4	982.8	7,488.71	10,083.64
Fergus	27.50	36.80	351,983.04	2,095.2	1,562.9	11,908.93	12,022.30
Finch	38.50	51.60	43,891.75	188.6	140.7	1,072.12	875.04
Flesherton	39.00	52.20	25,626.31	159.2	118.8	905.23	889.08
Fonthill	28.00	37.50	60,477.22	416.4	310.6	2,366.70	2,465.42
Forest	36.50	48.90	206,776.89	823.7	614.5	4,682.35	6,538.27
Forest Hill	22.00	29.40	1,239,459.98	8,864.6	6,613.0	50,389.52	37,973.96
Frankford	22.00	29.50	7,821.52	57.5	42.8	326.13	600.35
Galt	22.50	30.10	2,160,928.68	14,472.9	10,796.6	82,267.59	69,527.26
Georgetown	29.00	38.80	483,999.29	2,748.4	2,050.3	15,622.81	17,028.67
Glencoe	39.00	52.20	92,334.25	289.3	215.8	1,644.34	2,677.81
Goderich	32.50	43.50	509,621.17	2,616.4	1,951.8	14,872.25	21,165.51
Grand Valley	39.00	52.20	47,510.39	250.3	186.7	1,422.61	2,025.07
Granton	38.00	50.90	33,927.64	98.3	73.3	558.53	650.26
Gravenhurst	25.00	33.50	228,497.11	1,785.9	1,332.3	10,151.82	10,132.46
Grimsby	26.00	34.80	194,680.52	1,270.8	948.0	7,223.54	8,600.96
Guelph	23.00	30.80	2,419,199.20	16,244.0	12,118.0	92,336.33	78,200.78
Hagersville	28.00	37.50	236,171.71	1,336.3	996.9	7,596.15	10,329.74
Hamilton	20.50	27.40	26,066,061.89	191,326.2	142,729.2	1,087,563.36	842,126.42
Hanover	27.00	36.10	305,628.34	2,346.9	1,750.8	13,340.69	13,603.93
Harriston	34.50	46.20	166,432.05	787.5	587.5	4,476.61	6,447.50
Harrow	33.50	44.90	177,872.71	863.3	644.0	4,907.13	6,596.59
Hastings	37.00	49.60	44,262.97	239.8	178.9	1,363.12	1,398.92
Havelock	39.00	52.20	61,494.09	295.4	220.4	1,679.42	1,820.39
Hensall	37.50	50.20	86,400.55	387.1	288.8	2,200.59	3,041.91
Hespeler	24.00	32.10	609,753.84	4,083.8	3,046.5	23,213.63	19,548.54

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
22,923.50	4,753.12	12,941.26	5,788.93	248.11	88,698.37	89,711.19	1,012.82
11,361.76	2,518.75	6,108.07	2,869.23	116.67	45,439.04	46,951.79	1,512.75
4,257.03	1,146.53	2,193.13	1,075.05	41.90	17,104.91	21,894.03	4,789.12
2,448.07	605.53	1,068.85	618.19	19.11	8,883.11	9,689.73	806.62
99,024.26	20,727.77	54,518.87	25,006.91	1,042.26	373,380.44	401,897.84	28,517.40
13,296.56	2,902.61	6,915.33	3,357.85	130.69	49,826.20	59,970.36	10,144.16
1,937.47	514.08	1,017.54	489.28	19.43	7,885.89	10,317.16	2,431.27
927.53	263.90	446.43	234.23	8.42	3,636.22	5,278.18	1,641.96
5,415.88	1,314.17	2,443.83	1,367.72	44.40	19,366.98	21,068.18	1,701.20
1,853.51	449.98	830.72	468.08	15.12	6,687.21	7,662.51	975.30
2,721.54	735.58	959.03	687.32	16.57	8,836.17	10,393.00	1,556.83
408.71	113.88	132.83	103.21	2.26	1,226.30	1,413.55	187.25
7,196.96	1,711.88	3,134.74	1,817.51	56.19	25,182.44	27,540.52	2,358.08
108,010.87	23,065.89	59,109.48	27,276.36	1,124.57	410,504.98	433,639.51	23,134.53
9,718.38	2,318.37	4,459.90	2,454.25	81.81	36,605.06	39,507.56	2,902.50
14,326.80	3,295.79	7,010.48	3,618.04	130.11	52,312.45	57,514.62	5,202.17
1,786.53	592.73	661.63	451.25	11.71	5,451.01	7,261.03	1,810.02
1,043.07	288.64	516.41	263.41	9.89	3,915.73	6,201.04	2,285.31
2,461.61	541.33	1,345.20	621.64	25.86	9,827.76	11,649.03	1,821.27
8,416.46	2,188.22	3,060.49	2,125.51	51.16	27,062.46	30,047.70	2,985.24
50,449.86	10,228.59	28,632.93	12,740.24	550.51	190,965.61	194,423.01	3,457.40
318.36	68.15	184.47	80.46	3.56	1,581.48	1,261.37	(320.11)
87,956.49	18,760.05	47,358.83	22,212.00	898.78	328,981.00	324,977.68	(4,003.32)
19,700.27	4,649.40	9,258.86	4,975.05	170.68	71,405.74	79,551.45	8,145.71
3,758.29	1,093.43	1,125.33	949.14	17.96	11,266.30	11,266.30	....
20,743.16	5,085.04	8,966.83	5,238.52	162.48	76,233.79	84,902.58	8,668.79
1,933.82	595.43	841.60	488.38	15.54	7,322.45	9,746.86	2,424.41
1,380.96	408.97	373.11	348.77	6.10	3,726.70	3,730.23	3.53
9,300.54	2,090.82	5,627.89	2,348.69	110.91	39,763.13	44,633.64	4,870.51
7,924.10	1,789.64	4,158.51	2,001.12	78.92	31,776.79	32,988.84	1,212.05
98,468.90	21,015.78	53,260.58	24,866.74	1,008.78	369,157.89	373,235.15	4,077.26
9,612.92	2,283.75	4,523.29	2,427.61	82.99	36,856.45	37,382.37	525.92
1,060,969.45	214,493.94	616,095.31	267,928.78	11,881.66	4,101,058.92	3,910,780.54	(190,278.38)
12,440.02	2,750.98	7,446.88	3,141.66	145.75	52,869.91	63,204.69	10,334.78
6,774.30	1,697.37	2,765.69	1,710.80	48.91	23,921.18	27,144.51	3,223.33
7,239.97	1,767.65	3,018.40	1,828.38	53.61	25,411.73	28,913.75	3,502.02
1,801.64	529.80	805.34	455.09	14.89	6,368.80	8,871.91	2,503.11
2,503.00	788.63	1,009.17	632.24	18.35	8,451.20	11,507.25	3,056.05
3,516.77	919.05	1,350.19	888.12	24.04	11,940.67	14,497.94	2,557.27
24,818.87	5,293.56	13,363.35	6,267.61	253.61	92,759.17	97,792.31	5,033.14

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Highgate	36.50	48.90	24,692.72	129.0	96.2	733.02	1,302.61
Holstein	39.00	52.20	11,923.66	39.8	29.7	226.31	30.84
Humberstone	24.00	32.10	125,633.19	856.2	638.7	4,866.75	4,589.84
Huntsville	28.00	37.50	296,566.62	1,996.1	1,489.1	11,346.60	12,209.51
Ingersoll	25.00	33.50	700,547.18	4,436.5	3,309.6	25,218.37	23,608.44
Iroquois	25.50	34.10	61,273.47	456.4	340.5	2,594.51	2,345.03
Jarvis	34.50	46.20	50,415.57	232.3	173.3	1,320.51	2,316.63
Kemptville	32.00	42.90	107,907.51	629.8	469.8	3,579.78	5,230.04
Kincardine	35.50	47.50	217,672.87	1,328.1	990.8	7,549.67	9,171.24
Kingston	22.50	30.10	2,981,095.01	23,292.8	17,376.4	132,403.71	112,966.87
Kingsville	32.50	43.50	187,385.49	920.9	687.0	5,234.78	6,946.57
Kirkfield	39.00	52.20	14,186.39	45.3	33.8	257.55	397.27
Kitchener	22.50	30.10	5,347,003.18	37,044.2	27,635.0	210,572.26	169,860.90
Lakefield	25.00	33.50	113,584.48	734.6	548.0	4,175.59	4,393.91
Lambeth	32.00	42.90	45,296.06	235.9	176.0	1,341.08	1,265.37
Lanark	39.00	52.20	48,689.91	182.0	135.8	1,034.76	1,479.81
Lancaster	39.00	52.20	42,640.49	94.6	70.6	537.96	(115.50)
La Salle	31.00	41.50	117,370.68	539.1	402.2	3,064.69	4,278.35
Leamington	32.00	42.90	585,695.72	2,878.4	2,147.3	16,361.93	21,753.62
Lindsay	26.50	35.50	781,309.34	4,852.4	3,619.9	27,582.78	31,487.37
Listowel	30.00	40.20	393,029.06	2,086.1	1,556.2	11,857.88	13,440.70
London	22.50	30.10	7,094,967.95	47,769.8	35,636.3	271,540.34	232,036.17
London Twp	27.00	36.10	134,502.05	797.3	594.8	4,532.24	4,683.90
Long Branch	24.50	32.80	420,020.37	2,819.9	2,103.7	16,029.71	14,156.57
Lucan	31.00	41.50	63,537.92	358.2	267.2	2,036.00	2,578.17
Lucknow	39.00	52.20	104,258.65	555.9	414.7	3,159.92	3,848.93
Lynden	31.00	41.50	33,896.19	192.3	143.5	1,093.44	1,599.47
Madoc	39.00	52.20	88,870.63	505.4	377.0	2,872.58	3,758.53
Markdale	31.50	42.20	46,157.67	327.1	244.0	1,859.22	2,152.61
Markham	28.00	37.50	98,570.88	578.8	431.8	3,290.21	3,025.79
Marmora	33.00	44.20	38,329.76	217.9	162.6	1,238.94	1,787.19
Martintown	36.00	48.20	11,796.15	80.1	59.8	455.65	481.47
Maxville	39.00	52.20	36,560.12	192.8	143.8	1,095.79	1,314.68
Meaford	32.50	43.50	209,901.96	1,354.0	1,010.1	7,696.73	8,765.14
Merlin	34.00	45.50	34,156.86	161.0	120.1	915.13	1,557.58
Merritton	20.00	26.80	1,528,007.06	12,587.2	9,390.1	71,550.38	51,561.64
Midland	26.00	34.80	664,884.78	5,356.2	3,995.7	30,446.31	28,963.11
Mildmay	35.50	47.50	45,423.32	258.3	192.7	1,468.33	1,549.58
Millbrook	31.50	42.20	39,958.63	204.7	152.7	1,163.32	1,837.23
Milton	28.00	37.50	332,711.05	2,117.4	1,579.6	12,036.18	11,428.24

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			Credited (Charged)
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,005.07	243.62	442.69	253.82	8.01	3,988.84	4,701.64	712.80
485.33	179.96	143.52	122.57	2.47	1,191.00	1,551.96	360.96
5,113.66	1,107.91	2,805.49	1,291.36	53.17	19,828.18	20,501.58	673.40
12,071.18	3,140.85	6,409.00	3,048.42	123.96	48,349.52	55,840.23	7,490.71
28,514.44	6,306.65	14,690.69	7,200.91	275.51	105,815.01	110,870.53	5,055.52
2,494.02	579.36	1,457.13	630.02	28.35	10,128.42	11,611.56	1,483.14
2,052.07	534.06	814.41	518.23	14.43	7,570.34	8,008.20	437.86
4,392.17	1,255.57	2,115.46	1,109.47	39.11	17,721.60	20,154.23	2,432.63
8,859.96	2,484.24	4,354.24	2,237.39	82.48	34,739.22	47,064.37	12,325.15
121,339.80	26,718.88	73,786.31	30,652.49	1,446.52	499,314.58	523,029.52	23,714.94
7,627.17	1,851.06	3,209.33	1,926.16	57.19	26,852.26	29,882.86	3,030.60
577.43	216.84	167.96	145.82	2.81	1,765.68	1,765.68	....
217,639.59	45,187.36	120,546.43	54,961.24	2,300.50	821,068.28	831,812.94	10,744.66
4,623.24	1,193.29	2,413.22	1,167.89	45.62	18,012.76	18,357.68	344.92
1,843.69	452.34	802.68	465.60	14.65	6,185.41	7,550.67	1,365.26
1,981.83	704.59	654.20	500.58	11.30	6,367.07	7,088.53	721.46
1,735.60	704.61	377.21	438.37	5.88	3,684.13	3,684.13	....
4,777.35	1,195.96	1,921.43	1,206.48	33.48	16,477.74	16,690.67	212.93
23,839.63	5,785.71	10,031.14	6,020.46	178.75	83,971.24	92,120.74	8,149.50
31,801.71	8,669.80	15,958.77	8,033.24	301.34	123,835.01	128,505.68	4,670.67
15,997.50	3,795.80	7,166.57	4,040.00	129.55	56,428.00	62,561.14	6,133.14
288,787.17	61,182.81	156,414.64	72,928.51	2,966.59	1,085,856.23	1,072,651.30	(13,204.93)
5,474.65	1,256.67	2,667.35	1,382.54	49.51	20,046.86	21,472.80	1,425.94
17,096.13	3,692.89	9,231.34	4,317.35	175.12	64,699.11	69,001.88	4,302.77
2,586.19	610.16	1,213.33	653.11	22.24	9,699.20	11,086.98	1,387.78
4,243.65	1,296.56	1,854.57	1,071.65	34.52	15,509.80	21,649.00	6,139.20
1,379.68	328.13	648.82	348.42	11.95	5,409.91	5,953.93	544.02
3,617.31	1,052.05	1,694.28	913.73	31.38	13,939.86	19,679.06	5,739.20
1,878.76	452.98	1,046.53	474.48	20.31	7,884.89	10,294.64	2,409.75
4,012.14	926.19	1,938.24	1,013.21	35.95	14,241.73	16,191.44	1,949.71
1,560.14	453.75	730.75	394.09	13.54	6,178.40	7,186.82	1,008.42
480.14	121.96	260.15	121.29	4.98	1,925.64	2,880.43	954.79
1,488.11	453.25	656.58	375.90	11.97	5,396.28	7,504.32	2,108.04
8,543.66	2,301.03	4,401.50	2,157.58	84.09	33,949.73	43,940.11	9,990.38
1,390.29	353.16	562.70	351.11	10.00	5,139.97	5,462.60	322.63
62,194.62	11,864.34	39,746.37	15,706.00	781.69	253,405.04	251,654.15	(1,750.89)
27,062.87	5,872.17	16,749.89	6,834.25	332.63	116,261.23	139,049.98	22,788.75
1,848.87	536.75	855.55	466.91	16.04	6,742.03	9,155.09	2,413.06
1,626.44	503.55	709.51	410.83	12.71	6,263.59	6,443.47	179.88
13,542.37	3,025.22	6,947.88	3,419.94	131.50	50,531.33	59,235.29	8,703.96

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	.$ c.	$ c.	$ c.			$ c.	$ c.
Milverton	30.50	40.80	112,434.20	573.1	427.5	3,257.45	3,774.53
Mimico	23.00	30.80	562,607.80	4,008.3	2,990.2	22,784.63	18,156.09
Mitchell	28.00	37.50	214,561.07	1,237.5	923.2	7,034.57	7,508.77
Moorefield	39.00	52.20	30,228.17	103.1	76.9	585.96	762.36
Morrisburg	28.00	37.50	100,617.40	697.7	520.5	3,966.14	3,815.02
Mount Brydges	31.50	42.20	27,630.58	146.1	109.1	831.32	1,099.41
Mount Forest	38.50	51.60	148,715.96	838.7	625.7	4,767.69	6,064.50
Napanee	25.50	34.10	300,714.95	2,072.3	1,545.9	11,779.44	12,382.35
Neustadt	36.00	48.20	22,928.23	110.2	82.2	626.34	13.24
Newboro	33.00	44.20	14,419.79	48.1	35.9	273.54	308.49
Newburgh	26.50	35.50	6,418.68	36.9	27.5	209.53	524.88
Newbury	39.00	52.20	25,505.18	86.5	64.5	491.48	771.08
Newcastle	29.50	39.50	62,208.04	397.5	296.5	2,259.26	2,459.09
New Hamburg	27.50	36.80	179,961.24	989.9	738.5	5,627.20	6,685.85
Newmarket	27.25	36.50	442,698.25	2,751.1	2,052.3	15,638.05	14,047.87
New Toronto	24.50	32.80	2,085,492.16	13,177.9	9,830.7	74,907.64	74,597.54
Niagara Falls	17.75	23.70	1,252,173.26	12,986.6	9,688.0	73,820.31	44,724.94
Niagara	22.50	30.10	145,274.20	1,164.2	868.5	6,617.77	6,451.95
North York Twp.	24.00	32.10	3,218,486.28	21,665.8	16,162.7	123,156.03	100,865.17
Norwich	29.00	38.80	111,924.65	646.4	482 2	3,674.25	3,817.88
Norwood	31.50	42.20	50,493.21	326.5	243.6	1,856.22	2,012.24
Oakville	25.00	33.50	468,231.69	2,807.6	2,094.4	15,958.84	17,354.23
Oil Springs	35.00	46.90	52,089.65	207.5	154.8	1,179.54	1,682.07
Omemee	30.00	40.20	40,662.75	247.2	184.4	1,405.09	1,747.39
Orangeville	37.50	50.20	206,646.68	1 303.7	972.6	7,410.99	8,664.52
Orono	37.00	49.60	32,729.94	168.4	125.6	957.07	961.46
Oshawa	26.00	34.80	3,883,743.77	25,117.0	18,737.3	142,773.89	145,316.20
Ottawa	19.00	25.40	4,862 577.63	40,952.9	30,550.9	232,791.12	189,274.66
Otterville	33.00	44.20	44,442.07	192.2	143.4	1,092.67	949.49
Owen Sound	27.00	36.10	1,324,015.22	9,650.7	7,199.4	54,857.77	54,698.09
Paisley	39.00	52.20	47 764.67	271.4	202.5	1,543.00	2,073.03
Palmerston	33.00	44.20	150,360.30	745.8	556.4	4,239.64	5,648.61
Paris	23.00	30.80	370,577.45	2,524.6	1,883.4	14,351.07	12,570.20
Parkhill	39.00	52.20	90,481.32	456.7	340.7	2,596.05	4,193.59
Parry Sound	32.00	42.90	89,063.25	590.6	440.6	3,357.27	6,634.91
Penetanguishene	28.50	38.20	216,259.71	1,582.7	1,180.7	8,996.66	9,403.86
Perth	25.00	33.50	351,741.78	2,465.2	1,839.0	14,012.73	14,986.51
Peterborough	22.00	29.40	3,057,154.34	23,472.6	17,510.5	133,425.95	116,336.46
Petrolia	32.50	43.50	280,373.02	1,223.4	912.6	6,953.80	9,275.38
Picton	31.50	42.20	366,254.19	2,274.6	1,696.9	12,929.96	14,722.75

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,576.42	1,108.12	1,992.44	1,155.73	35.59	15,900.28	17,443.63	1,543.35
22,899.88	4,745.20	12,969.81	5,782.97	248.92	87,587.50	92,097.90	4,510.40
8,733.30	2,017.35	4,174.78	2,205.49	76.85	31,751.11	34,619.40	2,868.29
1,230.38	345.81	382.62	310.72	6.40	3,624.25	4,013.96	389.71
4,095.44	1,020.03	2,261.70	1,034.54	43.33	16,236.20	19,517.36	3,281.16
1,124.65	273.84	499.54	284.02	9.08	4,121.86	4,605.44	483.58
6,053.20	1,788.22	2,769.64	1,528.66	52.09	23,024.00	32,287.12	9,263.12
12,240.03	3,070.19	6,753.88	3,091.95	128.69	49,446.53	52,713.90	3,267.37
933.25	301.18	369.99	235.69	6.84	2,486.53	3,961.65	1,475.12
586.93	211.63	177.29	148.25	2.99	1,709.12	1,588.52	(120.60)
261.26	75.49	122.00	65.99	2.29	1,261.44	976.25	(285.19)
1,038.14	294.79	321.51	262.18	5.37	3,184.55	3,366.53	181.98
2,532.06	661.75	1,310.62	639.63	24.68	9,887.09	11,711.16	1,824.07
7,324.98	1,750.42	3,372.84	1,849.84	61.48	26,672.61	27,177.71	505.10
18,019.19	4,024.29	9,119.57	4,550.49	170.85	65,570.31	74,909.30	9,338.99
84,885.99	19,054.03	43,770.25	21,436.68	818.37	319,470.50	322,446.09	2,975.59
50,967.33	7,762.66	39,474.82	12,870.61	806.49	230,427.16	229,605.13	(822.03)
5,913.11	1,180.02	3,619.80	1,493.25	72.30	25,348.20	26,142.65	794.45
131,002.36	27,769.25	70,774.73	33,082.53	1,345.48	487,995.55	518,821.33	30,825.78
4,555.68	1,063.20	2,181.28	1,150.48	40.14	16,482.91	18,707.94	2,225.03
2,055.23	530.46	1,072.74	519.17	20.28	8,066.34	10,281.56	2,215.22
19,058.48	4,383.48	9,296.15	4,812.96	174.35	71,038.49	70,161.56	(876.93)
2,120.21	551.24	770.97	535.44	12.89	6,852.36	7,260.01	407.65
1,655.10	455.74	821.92	418.08	15.35	6,518.67	7,414.74	896.07
8,411.16	2,284.81	4,250.81	2,124.12	80.97	33,227.38	48,825.48	15,598.10
1,332.21	404.84	570.75	336.51	10.46	4,573.30	6,231.21	1,657.91
158,080.40	40,801.49	82,513.32	39,932.85	1,559.81	610,977.96	652,056.61	41,078.65
197,921.97	39,832.23	128,596.87	49,999.44	2,543.27	840,959.56	775,993.44	(64,966.12)
1,808.93	479.56	675.91	456.83	11.94	5,475.33	6,339.96	864.63
53,891.52	13,021.30	30,736.05	13,609.45	599.32	221,413.50	259,899.72	38,486.22
1,944.17	570.81	906.12	490.97	16.86	7,544.96	10,569.72	3,024.76
6,120.13	1,501.18	2,596.01	1,545.58	46.32	21 697.47	24,590.98	2,893.51
15,083.65	3,183.11	8 235.93	3,809.13	156.79	57,389.88	58,007.87	617.99
3,682.87	916.60	1,566.52	930.06	28.36	13,914.05	17,784.60	3,870.55
3,625.15	954.99	1,888.84	915.49	36.68	17,413.33	18,899.75	1,486.42
8,802.44	2,121.59	5,033.57	2,222.92	98.29	36,679.33	45,101.53	8,422.20
14,316.98	3,535.37	7,995.80	3,616.61	153.09	58,617.09	61,606.31	2,989.22
124 435.65	27,916.59	74,551.32	31,434.66	1,457.68	509,558.31	514,807.84	5,249.53
11,412.05	2,858.57	4,411.95	2,882.02	75.97	37,869.74	39,777.29	1,907.55
14,907.68	4,064.14	7,480.99	3,765.74	141.26	58,012.52	71,607.80	13,595.28

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Plattsville	36.00	48.20	63,029.85	308.1	229.9	1,751.78	3,077.32
Point Edward	32.00	42.90	566,767.93	2,501.1	1,865.8	14,216.97	25,268.46
Port Colborne	24.00	32.10	340,214.40	2,318.5	1,729.6	13,179.15	12,207.60
Port Credit	25.50	34.10	227,150.04	1,526.1	1,138.5	8,675.10	7,812.93
Port Dalhousie	24.50	32.80	193,101.28	1,342.7	1,001.6	7,631.96	6,986.49
Port Dover	31.00	41.50	159,109.76	858.1	640.1	4,877.42	6,895.99
Port Elgin	34.00	45.50	156,919.51	862.3	643.2	4,901.04	6,303.26
Port Hope	26.00	34.80	670,547.25	4,284.3	3,196.0	24,352.80	26,026.83
Port McNicoll	32.00	42.90	21,365.20	158.4	118.1	899.89	1,078.56
Port Perry	39.00	52.20	94,222.07	526.4	392.6	2,991.52	3,832.78
Port Rowan	34.50	46.20	50,994.89	169.0	126.0	960.10	1,571.06
Port Stanley	32.50	43.50	228,879.14	1 094.6	816.6	6,222.31	10,077.24
Prescott	25.00	33.50	251,707.14	1,710.6	1,276.0	9,722.79	9,205.11
Preston	23.00	30.80	799,120.27	5,453.4	4,068.2	30,998.74	25,646.51
Priceville	39.00	52.20	5,066.94	25.1	18.7	142.49	254.87
Princeton	37.50	50.20	58,015.73	210.3	156.9	1,195.54	1,559.91
Queenston	23.00	30.80	24,122.00	196.6	146.7	1,117.82	754.81
Renfrew	28.00	37.50	185,839.42	1,202.9	897.4	6,838.07	10,280.19
Richmond	39.00	52.20	60,749.43	136.3	101.7	774.94	(113.23)
Richmond Hill	24.00	32.10	141,949.89	904.6	674.8	5,141.82	4,313.17
Ridgetown	30.50	40.80	133,526.69	697.3	520.2	3,963.80	5,518.15
Ripley	39.00	52.20	37,885.32	153.8	114.7	873.99	1,042.87
Riverside	30.00	40.20	398,163.31	2,037.5	1,520.0	11,582.05	13,742.14
Rockwood	31.00	41.50	40,922.68	225.7	168.4	1,283.17	1,501.15
Rodney	39.00	52.20	57,633.22	235.0	175.3	1,335.75	2,021.55
Rosseau	39.00	52.20	40,094.00	64.9	48.4	368.79	(875.18)
Russell	39.00	52.20	45,625.77	149.3	111.4	848.85	1 396.99
St. Catharines	19.50	26.10	3,872,866.96	32,030.4	23,894.7	182,072.06	133,459.34
St. Clair Beach	35.00	46.90	31,433.23	148.9	111.1	846.56	1,101.61
St. George	35.00	46.90	51,775.18	268.4	200.2	1,525.48	1,586.23
St. Jacobs	27.50	36.80	68,771.92	443.0	330.5	2,518.33	2,444.83
St. Marys	30.00	40.20	475,502.88	2,482.3	1,851.8	14,110.27	15,352.55
St. Thomas	23.50	31.50	1,689,621.55	10,547.8	7,868.7	59,957.69	55,522.23
Sarnia	28.00	37.50	2,980,439.53	14,145.6	10,552.6	80,408.40	95,844.64
Scarborough Twp.	25.00	33.50	1,716,761.99	11,002.8	8,208.1	62,543.83	55,438.55
Seaforth	29.00	38.80	242,311.04	1,397.6	1,042.6	7,944.36	8,460.40
Shelburne	36.50	48.90	75,787.35	478.2	356.7	2,717.97	3,370.04
Simcoe	25.00	33.50	543,372.90	3,505.0	2,614.7	19,923.45	18,755.91
Smiths Falls	23.50	31.50	650,828.61	4,858.6	3,624.5	27,617.82	25,377.89
Smithville	29.50	39.50	102,150.21	614.7	458.6	3,494.44	4,413.87

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,565.51	649.13	1,062.04	647.89	19.14	9,772.81	11,080.49	1,307.68
23,069.21	5,749.82	8,999.38	5,825.91	155.32	83,285.07	80,041.88	(3,243.19)
13,847.78	3,000.22	7,597.27	3,497.02	143.98	53,473.02	55,520.27	2,047.25
9,245.71	1,995.16	4,995.07	2,334.86	94.78	35,153.61	38,821.11	3,667.50
7,859.82	1,706.51	4,353.20	1,984.87	83.38	30,606.23	32,852.85	2,246.62
6,476.26	1,556.45	2,916.90	1,635.50	53.29	24,411.81	26,566.12	2,154.31
6,387.11	1,914.89	2,862.68	1,613.00	53.54	24,035.52	29,267.12	5,231.60
27,293.35	7,133.12	14,127.27	6,894.67	266.05	106,094.09	111,220.82	5,126.73
869.63	207.02	504.43	219.61	9.83	3,788.97	5,064.99	1,276.02
3,835.13	1,141.12	1,744.59	968.53	32.68	14,546.35	20,494.25	5,947.90
2,075.65	594.49	633.42	524.20	10.49	6,369.41	5,821.26	(548.15)
9,316.09	2,372.86	3,846.23	2,352.53	67.98	34,255.24	35,519.88	1,264.64
10,245.26	2,602.39	5,551.00	2,588.04	106.22	40,020.81	42,749.40	2,728.59
32,526.67	6,847.36	17,805.39	8,214.08	338.66	122,377.41	125,299.22	2,921.81
206.24	65.67	87.88	52.09	1.56	810.80	975.81	165.01
2,361.42	662.66	766.23	596.36	13.06	7,155.18	7,876.21	721.03
981.84	193.22	615.19	247.95	12.20	3,923.03	4,517.31	594.28
7,564.24	2,002.34	3,963.90	1,910.78	74.71	32,634.23	33,652.60	1,018.37
2,472.69	1,003.49	538.85	624.53	8.47	5,309.74	5,309.74	....
5,777.80	1,270.33	2,985.73	1,459.10	56.17	21,004.12	21,659.42	655.30
5,434.95	1,317.35	2,393.83	1,372.53	43.31	20,043.92	21,222.62	1,178.70
1,542.05	535.29	535.02	389.42	9.55	4,928.19	5,988.15	1,059.96
16,206.48	3,854.90	7,058.96	4,092.77	126.53	56,663.83	61,104.87	4,441.04
1 665.68	399.00	766.38	420.65	14.02	6,050.05	6,987.61	937.56
2,345.85	633.83	846.57	592.37	14.59	7,790.51	9,149.00	1,358.49
1,631.95	696.71	285.98	412.15	4.03	2,524.43	2,524.43	....
1,857.11	681.62	550.39	469.07	9.27	5,813.30	5,813.30	....
157,637.68	29,818.91	101,038.93	39,808.03	1,989.14	645,824.09	623,652.13	(22,171.96)
1,279.43	315.89	521.64	323.10	9.25	4,397.48	5,212.30	814.82
2,107.41	519.69	913.78	532.20	16.67	7,201.46	9,389.68	2,188.22
2,799.23	611.07	1,455.84	706.90	27.51	10,563.71	12,160.94	1,597.23
19,354.44	4,617.91	8,607.77	4,887.73	154.16	67,084.83	74,440.41	7,355.58
68,772.83	15,310.76	35,138.55	17,367.57	655.04	252,724.67	247,864.82	(4,859.85)
121,313.12	29,223.86	49,739.78	30,636.40	878.46	408,044.66	395,723.39	(12,321.27)
69,877.53	15,372.72	36,252.13	17,646.47	683.29	257,814.52	274,972.74	17,158.22
9,862.81	2,278.26	4,714.71	2,490.73	86.79	35,838.06	40,451.03	4,612.97
3,084.78	837.95	1,558.98	779.02	29.69	12,378.43	17,443.17	5,064.74
22,116.96	4,797.35	11,534.67	5,585.30	217.66	82,931.30	87,591.80	4,660.50
26,490.74	6,139.61	15,596.90	6,691.93	301.73	108,216.62	114,173.07	5,956.45
4,157.83	982.47	2,028.78	1,050.00	38.17	16,165.56	18,113.68	1,948.12

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Southampton	32.50	43.50	155,038.08	874.4	652.3	4,970.38	6,262.26
Springfield	39.00	52.20	37,638.90	118.8	88.6	675.11	391.49
Stamford Twp	17.75	23.70	489,727.84	5,079.1	3,789.0	28,871.30	17,668.15
Stayner	32.50	43.50	70,249.44	481.5	359.2	2,737.02	3,071.81
Stirling	23.00	30.80	69,498.64	543.0	405.1	3,086.74	2,699.07
Stoney Creek	23.00	30.80	101,809.70	639.8	477.3	3,636.92	4,110.55
Stouffville	31.00	41.50	118,938.62	681.2	508.2	3,872.37	3,548.26
Stratford	25.00	33.50	1,578,648.91	9,708.2	7,242.3	55,184.62	50,808.10
Strathroy	26.50	35.50	343,061.62	2,071.3	1,545.2	11,774.07	12,842.05
Streetsville	29.00	38.80	123,927.18	776.5	579.3	4,414.13	4,458.28
Sunderland	39.00	52.20	45,004.18	242.0	180.5	1,375.37	1,417.34
Sutton	38.00	50.90	126,357.22	583.4	435.2	3,316.13	4,037.33
Swansea	25.00	33.50	545,130.51	3,781.1	2,820.7	21,493.07	25,510.07
Tara	36.50	48.90	37,711.87	211.2	157.6	1,200.88	1,665.64
Tavistock	29.00	38.80	154,075.99	863.8	644.4	4,910.18	5,315.68
Tecumseh	32.00	42.90	158,066.60	776.8	579.5	4,415.66	5,504.66
Teeswater	39.00	52.20	54,846.93	302.9	226.0	1,722.07	2,461.83
Thamesford	33.00	44.20	68,443.19	366.4	273.4	2,083.25	2,926.82
Thamesville	31.50	42.20	70,435.92	347.9	259.6	1,978.09	3,091.44
Thedford	39.00	52.20	59,354.94	222.5	166.0	1,264.88	1,695.45
Thornbury	35.00	46.90	44,303.75	199.1	148.6	1,132.29	1,447.89
Thorndale	39.00	52.20	39,213.48	170.5	127.2	969.24	811.19
Thornton	39.00	52.20	22,803.92	64.2	47.9	364.99	363.48
Thorold	22.50	30.10	485,349.31	3,899.7	2,909.2	22,167.42	16,671.85
Tilbury	30.00	40.20	254,706.91	1,330.2	992.3	7,561.10	10,339.62
Tillsonburg	26.50	35.50	398,084.94	2,448.3	1,826.4	13,916.74	14,509.31
Toronto	21.50	28.80	59,502,014.54	425,424.1	317,366.4	2,418,258.28	1,846,791.75
Toronto Twp	26.00	34.80	1,198,627.95	7,836.9	5,846.3	44,547.44	42,026.41
Tottenham	39.00	52.20	33,938.45	139.7	104.2	793.98	1,481.25
Trafalgar Twp	27.50	36.80	189,386.57	1,147.1	855.7	6,520.23	7,147.04
Trenton	21.00	28.10	938,556.34	7,748.0	5,780.0	44,042.59	34,716.75
Tweed	39.00	52.20	121,221.00	580.7	433.2	3,300.96	4,475.10
Uxbridge	39.00	52.20	117,317.61	632.6	471.9	3,595.77	4,714.40
Victoria Harbour	33.50	44.90	27,187.86	161.8	120.7	919.71	1,331.24
Walkerton	28.00	37.50	207,330.91	1,592.1	1,187.7	9,050.00	9,278.88
Wallaceburg	30.00	40.20	1,407,753.81	7,786.5	5,808.7	44,260.96	52,516.43
Wardsville	39.00	52.20	33,623.24	105.4	78.6	598.91	851.94
Warkworth	34.00	45.50	27,382.19	129.2	96.4	734.56	951.61
Waterdown	26.00	34.80	74,400.24	467.6	348.8	2,657.77	3,033.97
Waterford	27.00	36.10	97,981.98	605.4	451.6	3,441.09	3,521.80

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,310.53	1,864.25	2,887.40	1,593.64	54.30	23,942.76	28,374.72	4,431.96
1,532.02	444.99	444.58	386.89	7.38	3,882.46	4,626.63	744.17
19,933.44	3,035.99	15,438.70	5,033.73	315.42	90,296.73	89,799.09	(497.64)
2,859.37	732.48	1,560.48	722.10	29.90	11,713.16	15,623.58	3,910.42
2,828.81	622.90	1,720.20	714.61	33.72	11,706.05	12,475.84	769.79
4,143.97	931.30	2,120.40	1,046.50	39.73	16,029.37	15,331.57	(697.80)
4,841.17	1,132.92	2,288.32	1,222.58	42.31	16,947.93	21,088.78	4,140.85
64,255.90	14,295.03	32,409.44	16,226.89	602.89	233,782.87	242,615.75	8,832.88
13,963.67	3,171.60	6,917.14	3,526.32	128.63	52,323.48	54,853.37	2,529.89
5,044.22	1,137.42	2,570.83	1,273.84	48.22	18,946.94	22,478.34	3,531.40
1,831.81	557.54	804.83	462.61	15.03	6,464.53	9,423.09	2,958.56
5,143.13	1,328.98	2,032.84	1,298.85	36.23	17,193.49	22,151.14	4,957.65
22,188.50	4,651.59	12,300.91	5,603.34	234.81	91,982.29	94,492.53	2,510.24
1,534.99	454.74	706.51	387.64	13.12	5,963.52	7,705.87	1,742.35
6,271.37	1,471.25	2,936.33	1,583.76	53.64	22,542.21	25,001.03	2,458.82
6,433.80	1,561.46	2,706.53	1,624.79	48.24	22,295.14	24,861.87	2,566.73
2,232.44	667.33	1,019.60	563.78	18.81	8,685.86	11,798.44	3,112.58
2,785.85	674.56	1,250.14	703.53	22.76	10,446.91	12,083.42	1,636.51
2,866.96	713.89	1,209.58	724.02	21.61	10,605.59	10,955.89	350.30
2,415.93	642.32	835.29	610.12	13.82	7,477.81	8,663.36	1,185.55
1,803.30	600.18	681.49	455.40	12.37	6,132.92	6,969.20	836.28
1,596.11	421.76	596.19	403.08	10.59	4,808.16	6,638.38	1,830.22
928.19	360.00	242.80	234.40	3.99	2,497.85	2,497.85	....
19,755.22	3,850.73	12,382.92	4,988.79	242.18	80,059.11	87,567.58	7,508.47
10,367.36	2,512.89	4,566.32	2,618.16	82.61	38,048.06	39,891.56	1,843.50
16,203.29	3,648.54	8,115.55	4,091.91	152.04	60,637.38	64,838.72	4,201.34
2,421,916.28	493,689.20	1,375,975.23	611,612.84	26,419.54	9,194,663.12	9,140,153.04	(54,510.08)
48,787.87	10,719.05	25,815.85	12,320.61	486.69	184,703.92	203,449.93	18,746.01
1,381.40	477.22	482.98	348.86	8.67	4,974.36	5,440.08	465.72
7,708.62	1,765.46	3,778.22	1,946.67	71.24	28,937.48	31,490.96	2,553.48
38,202.15	7,851.55	24,392.01	9,650.65	481.16	159,336.86	162,417.85	3,080.99
4,934.07	1,581.81	1,975.58	1,246.30	36.06	17,549.88	22,611.56	5,061.68
4,775.19	1,450.95	2,103.83	1,205.94	39.28	17,885.36	24,633.95	6,748.59
1,106.63	316.07	529.99	279.47	10.05	4,493.16	5,421.19	928.03
8,439.01	1,866.20	5,051.78	2,131.22	98.87	35,915.96	44,539.15	8,623.19
57,299.94	13,474.64	26,415.46	14,470.38	483.55	208,921.36	233,507.95	24,586.59
1,368.57	396.48	397.99	345.64	6.54	3,966.07	4,100.24	134.17
1,114.54	359.92	449.57	281.51	8.02	3,899.73	4,387.48	487.75
3,028.32	680.58	1,549.53	764.76	29.04	11,743.97	12,137.00	393.03
3,988.17	889.09	2,014.67	1,007.16	37.59	14,899.57	16,301.66	1,402.09

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	$ c.	$ c.	$ c.			$ c.	$ c.
Waterloo........	23.00	30.80	1,226,190.96	8,404.6	6,269.8	47,774.41	39,583.16
Watford.........	35.50	47.50	147,107.23	599.2	447.0	3,406.04	5,322.09
Waubaushene....	30.00	40.20	29,741.23	220.4	164.4	1,252.69	1,468.43
Welland.........	19.50	26.10	1,485,577.86	12,346.1	9,210.2	70,179.59	51,721.90
Wellesley........	32.00	42.90	42,382.03	221.7	165.4	1,260.31	1,667.49
Wellington......	31.00	41.50	71,247.40	442.5	330.1	2,515.26	2,974.44
West Lorne......	35.50	47.50	143,634.03	697.6	520.4	3,965.33	6,029.17
Weston.........	22.50	30.10	889,149.78	6,274.0	4,680.4	35,663.57	27,241.54
Westport........	39.00	52.20	61,064.64	184.3	137.5	1,047.71	1,389.55
Wheatley........	39.00	52.20	112,046.51	437.1	326.1	2,484.81	3,413.91
Whitby.........	25.50	34.10	339,975.11	2,242.4	1,672.8	12,746.30	12,739.98
Wiarton.........	39.00	52.20	143,170.92	740.9	552.7	4,211.45	5,737.35
Williamsburg....	28.50	38.20	20,850.50	141.7	105.7	805.40	795.41
Winchester......	28.50	38.20	123,391.35	733.0	546.8	4,166.47	4,687.11
Windermere.....	39.00	52.20	31,715.28	80.7	60.2	458.71	240.69
Windsor.........	25.00	33.50	11,223,048.65	63,660.0	47,490.4	361,865.84	348,188.24
Wingham........	37.50	50.20	233,780.74	1,390.3	1,037.2	7,903.22	9,838.33
Woodbridge.....	27.50	36.80	220,302.89	1,369.0	1,021.3	7,782.07	7,077.91
Woodstock......	24.50	32.80	1,636,636.39	10,941.4	8,162.3	62,194.82	53,047.34
Woodville.......	39.00	52.20	24,907.69	106.6	79.5	605.77	615.47
Wyoming........	39.00	52.20	66,400.35	228.4	170.4	1,298.41	1,495.11
York Twp.......	23.00	30.80	4,330,160.90	31,218.1	23,288.7	177,454.49	133,533.97
Zurich..........	39.00	52.20	58,208.59	225.5	168.2	1,281.64	2,277.55
Ontario Central Reformatory...	27.00	36.19	51,049.68	321.2	239.6	1,825.70	1,636.30
Totals—Municipalities........			220,505,858.10	1,511,936.2	1,127,904.4	8,594,369.57	7,395,636.04
Totals—Rural power district...			38,053,872.49	219,572.4	163,801.0	1,267,352.71	1,397,250.40
Totals—Companies...........			78,583,182.90	588,820.4	439,260.0	3,347,059.13	2,567,034.58
Totals—Local distribution sys..			684,752.31	2,141.8	1,597.8	12,174.88	32,414.72
			337,827,665.80				
Non-operating capital.........			108,860,083.31				
Grand Totals................			446,687,749.11	2,322,470.8	1,732,563.2	13,220,956.29	11,392,335.74

Contingencies and obsolescence
Frequency standardization....

(1) Operating, maintenance and administrative expenses have been credited with amounts totalling $6,664.45 required to reduce the cost of power to certain municipalities to a maximum of $52.25 per kw.

SYSTEM *S.O.—COST OF POWER*

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			Credited (Charged)
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
49,909.77	10,443.44	27,388.93	12,603.90	521.94	188,225.55	193,110.35	4,884.80
5,987.72	1,543.34	2,174.89	1,512.16	37.21	19,983.45	21,231.65	1,248.20
1,210.56	288.17	702.18	305.71	13.69	5,241.43	6,609.98	1,368.55
60,467.62	11,444.40	38,937.35	15,269.87	766.71	248,787.44	240,385.39	(8,402.05)
1,725.08	422.45	757.44	435.65	13.77	6,282.19	7,095.12	812.93
2,899.99	790.60	1,455.28	732.55	27.48	11,395.60	13,699.15	2,303.55
5,846.35	1,479.58	2,446.14	1,476.33	43.32	21,286.22	24,718.21	3,431.99
36,191.15	7,413.81	20,309.24	9,139.46	389.63	136,348.40	140,878.42	4,530.02
2,485.52	924.47	693.31	627.78	11.45	7,179.79	7,179.79	....
4,560.64	1,216.91	1,582.06	1,151.76	27.15	14,437.24	17,022.11	2,584.87
13,838.04	3,516.66	7,313.80	3,495.58	139.25	53,789.61	57,042.76	3,253.15
5,827.50	1,808.10	2,485.57	1,471.67	46.01	21,587.65	28,853.50	7,265.85
848.68	215.57	459.82	214.38	8.80	3,348.06	4,039.38	691.32
5,022.41	1,382.24	2,456.13	1,268.67	45.52	19,028.55	20,886.69	1,858.14
1,290.91	512.11	311.40	326.02	5.01	3,144.85	3,144.85	....
456,812.84	102,619.47	215,478.22	115,362.11	3,953.41	1,604,280.13	1,590,929.93	(13,350.20)
9,515.60	2,707.37	4,579.96	2,403.05	86.34	37,033.87	52,066.20	15,032.33
8,967.01	2,002.64	4,538.23	2,264.49	85.03	32,717.38	37,582.84	4,865.46
66,616.17	14,219.90	35,895.61	16,822.85	679.48	249,476.17	267,722.17	18,246.00
1,013.82	344.86	368.15	256.05	6.62	3,210.74	4,149.73	938.99
2,702.70	739.47	856.82	682.55	14.19	7,789.25	8,894.60	1,105.35
176,250.96	35,512.11	100,729.61	44,509.09	1,938.69	669,928.92	717,291.80	47,362.88
2,369.27	650.79	817.13	598.33	14.00	8,008.71	8,781.90	773.19
2,077.88	462.63	1,064.76	524.73	19.95	7,611.95	8,672.92	1,060.97
8,975,271.37	1,938,794.30	4,919,843.67	2,266,646.17	93,893.72	34,184,454.84	34,955,630.15	771,175.31
1,548,910.47	385,168.33	736,771.11	391,180.47	13,635.80	5,740,269.29	5,740,269.29	....
3,198,578.93	670,563.30	1,887,287.30	807,774.80	(140,048.41)	12,338,249.63	12,338,249.63	....
27,871.54	10,208.82	9,978.93	7,039.06	32,518.89	132,206.84	132,206.84	....
13,750,632.31	3,004,734.75	7,553,881.01	3,472,640.50	....	52,395,180.60	53,166,355.91	771,175.31

....		1,160,722.80
....		6,393,158.21
		7,553,881.01

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(2) The provision for frequency standardization included in the cost of power for the year was $3.69 per kw on all municipal, rural power district and company loads.

SOUTHERN ONTARIO SYSTEM

Statement summarizing the amounts credited or charged to Municipalities which are supplied with power at cost, as a result of annual adjustments of interim billings to the amounts chargeable in respect of power supplied in each year

		$ c·
Amounts at credit of municipalities at October 31, 1948		2,596,798.04
Less payments to municipalities and adjustments made during the year ended October 31, 1949		2,596,798.04
Balance of annual adjustments to October 31, 1948		Nil
Amounts credited or charged to municipalities upon adjustment of interim billings for power supplied in the year ended October 31, 1949, as detailed on cost of power statement for the year—		
Credited	$1,175,297.57	
Charged	404,122.26	
		771,175.31
Amounts at credit or debit of municipalities at October 31, 1949—		
At Credit	$1,175,297.57	
At Debit	404,122.26	
		771,175.31

SOUTHERN ONTARIO SYSTEM *S.O.—SINKING FUND*

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		$ c.			$ c.
Acton	32 years	147,026.35	Brigden	27 years	21,513.15
Agincourt	26 "	23,262.25	Brighton	20 "	28,185.99
Ailsa Craig	29 "	27,421.74	Brockville	29 "	376,775.99
Alexandria	25 "	54,649.62	Brussels	26 "	25,945.90
Alliston	26 "	48,879.07	Burford	29 "	27,597.78
Almonte	5 "	6,646.28	Burgessville	28 "	10,158.59
Alvinston	26 "	27,576.32	Burlington	5 "	22,074.10
Amherstburg	26 "	112,393.43	Caledonia	32 "	44,267.74
Ancaster Township	26 "	36,911.28	Campbellville	25 "	5,808.47
Apple Hill	25 "	6,216.96	Cannington	30 "	29,071.53
Arkona	23 "	12,514.97	Cardinal	20 "	16,241.71
Arnprior	11 "	35,381.68	Carleton Place	25 "	157,026.96
Arthur	28 "	36,099.86	Cayuga	25 "	20,354.03
Athens	21 "	13,696.37	Chatham	29 "	775,904.60
Aurora	7 "	27,987.35	Chatsworth	29 "	9,462.88
Aylmer	26 "	91,504.92	Chesley	28 "	69,615.22
Ayr	30 "	29,693.41	Chesterville	30 "	48,243.02
Baden	32 "	60,939.92	Chippawa	28 "	32,663.03
Barrie	31 "	324,820.23	Clifford	26 "	15,062.51
Bath	18 "	5,183.21	Clinton	30 "	90,737.22
Beachville	32 "	79,847.22	Cobden	14 "	6,856.11
Beamsville	13 "	18,546.13	Cobourg	18 "	121,195.56
Beaverton	30 "	38,113.19	Colborne	17 "	12,367.91
Beeton	26 "	28,029.18	Coldwater	31 "	26,353.46
Belle River	27 "	22,319.96	Collingwood	31 "	264,643.88
Belleville	21 "	401,860.44	Comber	29 "	32,627.04
Blenheim	29 "	73,561.15	Cookstown	26 "	10,835.12
Bloomfield	21 "	13,434.78	Cottam	23 "	9,635.36
Blyth	26 "	19,856.09	Courtright	26 "	10,877.77
Bobcaygeon	4 "	2,615.22	Creemore	30 "	22,340.69
Bolton	29 "	33,041.91	Dashwood	27 "	16,471.69
Bothwell	29 "	30,396.45	Delaware	29 "	7,053.92
Bowmanville	18 "	155,547.24	Delhi	12 "	23,197.42
Bradford	26 "	36,151.65	Deseronto	19 "	17,442.84
Braeside	5 "	2,588.59	Dorchester	30 "	14,724.48
Brampton	33 "	329,204.39	Drayton	26 "	24,498.87
Brantford	30 "	1,849,831.58	Dresden	29 "	62,795.61
Brantford Township	26 "	88,273.40	Drumbo	30 "	13,032.76
Brechin	30 "	13,042.12	Dublin	27 "	10,306.95
Bridgeport	22 "	14,832.26	Dundalk	29 "	25,109.67

SOUTHERN ONTARIO SYSTEM *S.O.—SINKING FUND*

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		$ c.			$ c.
Dundas	33 years	275,782.72	Highgate	28 years	17,420.37
Dunnville	27 “	127,191.16	Holstein	28 “	4,983.47
Durham	29 “	57,590.53	Humberstone	26 “	45,674.77
Dutton	29 “	36,704.02	Huntsville	28 “	119,923.90
East York Township	25 “	640,647.16	Ingersoll	33 “	354,658.77
Elmira	31 “	148,351.66	Iroquois	10 “	6,961.60
Elmvale	31 “	27,156.06	Jarvis	26 “	28,842.26
Elmwood	26 “	8,597.02	Kemptville	25 “	41,032.89
Elora	30 “	68,974.52	Kincardine	25 “	86,550.05
Embro	30 “	21,255.46	Kingston	12 “	421,380.04
Erieau	26 “	15,274.22	Kingsville	26 “	80,989.50
Erie Beach	25 “	3,310.21	Kirkfield	25 “	5,945.38
Essex	26 “	64,578.05	Kitchener	33 “	2,575,654.01
Etobicoke Township	27 “	558,157.40	Lakefield	21 “	28,973.90
Exeter	28 “	85,053.12	Lambeth	29 “	18,775.36
Fergus	30 “	131,600.01	Lanark	25 “	12,913.15
Finch	22 “	9,719.83	Lancaster	25 “	11,204.28
Flesherton	29 “	12,060.42	La Salle	24 “	30,090.85
Fonthill	24 “	14,900.33	Leamington	26 “	188,860.29
Forest	27 “	69,127.66	Lindsay	21 “	226,954.30
Forest Hill	26 “	418,225.59	Listowel	28 “	157,829.17
Frankford (Sept. 1949)	1 “	107.46	London	33 “	4,574,692.00
Galt	33 “	1,079,063.83	London Township	25 “	45,349.79
Georgetown	31 “	209,749.06	Long Branch	19 “	76,302.15
Glencoe	26 “	38,915.03	Lucan	29 “	33,255.46
Goderich	30 “	236,339.58	Lucknow	25 “	41,563.25
Grand Valley	28 “	23,077.24	Lynden	29 “	22,826.94
Granton	28 “	14,504.05	Madoc	20 “	18,373.39
Gravenhurst	29 “	70,392.72	Markdale	28 “	20,271.00
Grimsby	8 “	20,301.77	Markham	26 “	39,212.07
Guelph	33 “	1,265,510.75	Marmora	21 “	12,269.27
Hagersville	31 “	140,565.08	Martintown	25 “	4,228.89
Hamilton	33 “	10,476,227.12	Maxville	25 “	17,884.59
Hanover	28 “	154,865.51	Meaford	25 “	65,833.85
Harriston	28 “	66,154.62	Merlin	26 “	20,504.92
Harrow	26 “	55,719.23	Merritton	28 “	432,118.11
Hastings	19 “	9,345.46	Midland	31 “	414,994.82
Havelock	21 “	23,190.84	Mildmay	17 “	9,373.35
Hensall	28 “	32,551.96	Millbrook	11 “	4,250.20
Hespeler	33 “	240,246.88	Milton	31 “	186,064.46

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		$ c.			$ c.
Milverton	28 years	74,981.42	Plattsville	30 years	18,722.09
Mimico	32 "	273,584.77	Point Edward	27 "	135,336.00
Mitchell	33 "	86,541.96	Port Colborne	28 "	191,059.14
Moorefield	26 "	11,866.10	Port Credit	32 "	83,583.27
Morrisburg	12 "	10,633.03	Port Dalhousie	28 "	76,074.71
Mount Brydges	29 "	14,380.79	Port Dover	26 "	54,030.32
Mount Forest	29 "	65,897.13	Port Elgin	19 "	33,483.72
Napanee	20 "	92,541.77	Port Hope	20 "	145,179.43
Neustadt	26 "	10,969.47	Port McNicoll	30 "	11,901.69
Newboro (Dec. 1948)	1 "	170.90	Port Perry	25 "	35,950.69
Newburgh (July, 1949)	1 "	83.34	Port Rowan	23 "	13,993.53
Newbury	26 "	8,107.43	Port Stanley	32 "	79,714.06
Newcastle	13 "	8,173.18	Prescott	30 "	101,458.75
New Hamburg	33 "	90,624.26	Preston	33 "	474,537.63
Newmarket	5 "	25,929.26	Priceville	25 "	1,833.36
New Toronto	30 "	934,615.75	Princeton	30 "	18,903.44
Niagara Falls	29 "	1,023,865.70	Queenston	26 "	13,010.30
Niagara	26 "	64,183.34	Renfrew	5 "	9,451.57
North York Township	26 "	496,147.82	Richmond	22 "	7,463.14
Norwich	32 "	66,250.07	Richmond Hill	25 "	43,385.97
Norwood	21 "	13,083.42	Ridgetown	29 "	79,140.47
Oakville (Jan. 1949)	1 "	6,134.12	Ripley	25 "	15,943.46
Oil Springs	26 "	42,168.91	Riverside	27 "	158,051.93
Omemee	10 "	6,161.02	Rockwood	31 "	20,626.80
Orangeville	28 "	89,333.71	Rodney	27 "	25,483.00
Orono	11 "	3,985.75	Rosseau	19 "	7,858.02
Oshawa	21 "	1,183,671.21	Russell	24 "	11,178.06
Ottawa	34 "	669,303.28	St. Catharines	28 "	1,431,242.33
Otterville	28 "	16,833.17	St. Clair Beach	27 "	13,225.24
Owen Sound	29 "	462,109.72	St. George	29 "	25,923.42
Paisley	25 "	21,127.63	St. Jacobs	27 "	32,293.88
Palmerston	28 "	81,496.52	St. Mary's	33 "	239,503.85
Paris	30 "	210,654.85	St. Thomas	33 "	916,166.18
Parkhill	26 "	36,907.30	Sarnia	28 "	1,178,166.08
Parry Sound	2 "	1,961.39	Scarborough Twp.	26 "	415,284.26
Penetanguishene	33 "	119,765.64	Seaforth	33 "	113,943.42
Perth	25 "	140,912.63	Shelburne	28 "	36,204.17
Peterborough	21 "	756,920.09	Simcoe	29 "	224,248.94
Petrolia	28 "	182,782.41	Smiths Falls	26 "	211,177.96
Picton	21 "	114,226.85	Smithville	9 "	7,273.16

SOUTHERN ONTARIO SYSTEM *S.O.—SINKING FUND*

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		$ c.			$ c.
Southampton	19 “	32,055.07	Wallaceburg	29 years	395,709.52
Springfield	27 “	16,137.67	Wardsville	26 “	7,233.57
Stamford Township	28 “	197,526.15	Warkworth	21 “	8,112.54
Stayner	31 “	32,464.21	Waterdown	33 “	39,521.11
Stirling	20 “	19,535.47	Waterford	29 “	59,107.51
Stoney Creek	3 “	3,244.95	Waterloo	33 “	522,132.88
Stouffville	26 “	35,476.74	Watford	27 “	47,461.15
Stratford	33 “	1,058,609.68	Waubaushene	30 “	9,578.67
Strathroy	30 “	168,794.94	Welland	27 “	648,986.22
Streetsville	15 “	12,004.67	Wellesley	28 “	27,814.36
Sunderland	30 “	18,585.08	Wellington	21 “	21,698.10
Sutton	26 “	35,518.19	West Lorne	28 “	46,308.19
Swansea	24 “	189,068.58	Weston	33 “	456,489.46
Tara	26 “	16,393.17	Westport	18 “	11,903.37
Tavistock	28 “	84,334.17	Wheatley	26 “	28,699.39
Tecumseh	27 “	51,877.20	Whitby	21 “	109,028.06
Teeswater	25 “	23,775.34	Wiarton	19 “	33,571.60
Thamesford	30 “	32,110.67	Williamsburg	29 “	11,532.32
Thamesville	29 “	32,180.54	Winchester	30 “	38,457.58
Thedford	26 “	18,993.40	Windermere	20 “	5,649.09
Thornbury	5 “	2,100.74	Windsor	30 “	5,718,369.29
Thorndale	30 “	15,767.50	Wingham	25 “	78,484.76
Thornton	26 “	6,340.81	Woodbridge	30 “	64,953.81
Thorold	27 “	207,077.57	Woodstock	33 “	781,856.53
Tilbury	29 “	100,298.15	Woodville	30 “	17,547.90
Tillsonburg	33 “	169,361.52	Wyoming	28 “	15,861.28
Toronto	33 “	35,313,825.78	York Township	29 “	1,510,737.43
Toronto Township	31 “	261,052.25	Zurich	27 “	24,434.97
Tottenham	26 “	20,283.22	Ontario Central Reformatory	15 “	15,043.73
Trafalgar	13 “	27,302.93			
Trenton	18 “	214,369.55	Toronto Transportation Commission	28 “	267,143.65
Tweed	19 “	23,785.30			
Uxbridge	25 “	39,624.51	Sandwich, Windsor & Amherstburg Rly.	27 “	260,007.89
Victoria Harbour	30 “	12,052.04			
Walkerton	19 “	52,249.21			
			Total Municipalities		$98,453,755.31
			Total—Rural Power District		10,953,866.03
			Grand total		$109,407,621.34

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

RURAL POWER DISTRICTS

Operating accounts for the year ended October 31, 1949

	Southern Ontario	Thunder Bay	Total
	$ c.	$ c.	$ c.
REVENUE:			
Power sold to customers in rural power districts	10,858,363.92	102,182.85	10,960,546.77
COST OF OPERATION:			
Cost of power as provided to be paid under Power Commission Act	5,740,269.29	41,990.66	5,782,259.95
Operating, maintenance and administrative expenses	4,105,368.93	77,075.50	4,182,444.43
Interest (including interest on funded debt and reserves less interest earned on investments)	1,452,466.89	23,069.53	1,475,536.42
Provision for depreciation	690,798.28	11,066.07	701,864.35
Provision for contingencies and obsolescence	172,698.49	2,766.52	175,465.01
Provision for sinking fund	366,824.59	5,826.28	372,650.87
	12,528,426.47	161,794.56	12,690,221.03
Excess of operating cost over revenue for year	1,670,062.55	59,611.71	1,729,674.26

Rates Suspense Account for the year ended October 31, 1949

	Southern Ontario	Thunder Bay	Total
	$ c.	$ c.	$ c.
Balances at credit or debit November 1, 1948	3,825,183.88	*24,646.11*	3,800,537.77
Interest on account balances	152,983.58	*997.68*	151,985.90
	3,978,167.46	*25,643.79*	3,952,523.67
Excess of operating cost over revenue for the year	1,670,062.55	59,611.71	1,729,674.26
Adjustments made during year	1,011.25	359.10	1,370.35
	1,671,073.80	59,970.81	1,731,044.61
Balances at credit or debit October 31, 1949	2,307,093.66	*85,614.60*	2,221,479.06

THUNDER BAY

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of operating		
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses	Interest
			$ c.			$ c.	$ c.	$ c.
Fort William	20.00	26.80	4,278,593.97	20,667.2	15,417.7	18.92	102,802.41	169,957.01
Nipigon Twp.	28.00	37.50	150,299.50	638.7	476.5	0.58	3,804.34	5,867.17
Port Arthur	20.00	26.80	6,208,337.23	30,028.7	22,401.4	27.48	151,062.24	246,595.11
Red Rock	25.00	33.50	78,996.60	408.8	305.0	0.37	2,864.80	3,061.12
Schreiber	39.00	52.20	63,917.78	251.7	187.8	0.23	1,413.39	2,032.56
Terrace Bay	35.00	46.90	169,650.56	792.1	590.9	0.73	4,475.54	6,617.13
TOTALS								
Municipalities			10,949,795.64	52,787.2	39,379.3	48.31	266,422.72	434,130.10
Rural Power district			445,917.10	1,725.0	1,286.9	1.58	12,380.18	16,478.46
Companies			23,078,027.88	111,994.0	83,547.5	1,330.75	506,745.61	897,008.83
Rainy River district (N.O.P.)			3,628,377.22	18,556.0	13,842.8	16.98	76,156.07	143,793.43
Mining Area (mines)			2,534,848.52	9,320.5	6,953.1	8.53	124,600.24	66,763.99
Mining Area (townsites)			459,390.80	1,152.1	859.5	1.06	32,309.49	8,252.65
			41,096,357.16					
Non-operating capital			19,379,655.61					
Grand totals			60,476,012.77	195,534.8	145,869.1	1,407.21	1,018,614.31	1,566,427.46

THUNDER BAY SYSTEM

Statement summarizing the amounts credited or charged to Municipalities which are supplied with power at cost, as a result of annual adjustments of interim billings to the amounts chargeable in respect of power supplied in each year

	$ c.
Amounts at credit of municipalities at October 31, 1948	66,527.11
Less payments to municipalities and adjustments made during the year ended October 31, 1949	66,527.11
Balance of annual adjustments to October 31, 1948	Nil
Amounts credited to municipalities upon adjustment of interim billings for power supplied in the year ended October 31, 1949, as detailed on cost of power statement for the year	28,100.99
Amounts at credit of municipalities at October 31, 1949	28,100.99

SYSTEM *T.B.—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited to each municipality
Provision for depreciation	Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund	Debit			
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
34,162.34	33,500.70	....	42,923.12	26,596.76	409,961.26	413 196.66	3,235.40
1,285.77	1,111.97	....	1,481.76	821.95	14,373.54	17,867.98	3,494.44
49,512.06	48,633.79	....	62,278.30	38,644.13	596,753.11	600,358.02	3,604.91
573.22	628.47	....	773.10	526.09	8,427.17	10,218.29	1,791.12
407.62	405.18	....	513.33	323.91	5,096.22	9,803.68	4,707.46
1,362.17	1,301.57	....	1,671.16	1,019.36	16,447.66	27,715.32	11,267.66
87,303.18	85,581.68	....	109,640.77	67,932.20	1,051,058.96	1,079,159.95	28,100.99
3,677.35	3,071.50	....	4,161.68	2,219.91	41,990.66	41,990.66	....
173,237.37	176,003.06	....	224,008.17	(70,152.11)	1,908,181.68	1,908,181.68	....
27,566.85	15,497.40	....	36,315.44	....	299,346.17	299,346.17	....
12,039.64	16,649.14	20,041.78	16,861.42	....	256,964.74	256,964.74	....
1,488.21	18,272.64	15,105.52	2,084.23	....	77,513.80	77,513.80	....
305,312.60	315,075.42	35,147.30	393,071.71	....	3,635,056.01	3,663,157.00	28,100.99

THUNDER BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the System, and interest allowed thereon, to October 31, 1949

Municipality	Period of years ended October 31, 1949	Amount
		$ c.
Fort William	23 years	1,803,439.72
Nipigon Township	23 years	24,861.83
Port Arthur	23 years	4,284,000.23
Red Rock	2 years	3,573.66
Schreiber (November 1948)	1 year	1,803.02
Terrace Bay	2 years	6,592.95
Total—Municipalities		6,124,271.41
Total—Rural power district		111,314.26
Grand total		6,235,585.67

NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the year ended October 31, 1949

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Abitibi Timiskaming Sudbury Nipissing
Patricia Rainy River Rural Power

STATEMENTS

Balance Sheet as at October 31, 1949

Operating Account for the year ended October 31, 1949

Schedules supporting the Balance Sheet as at October 31, 1949
  Fixed Assets—By Districts
  Fixed Assets—Changes during year
  Depreciation Reserve
  Contingencies and Obsolescence Reserve
  Sinking Fund Reserve

THE HYDRO-ELECTRIC POWER

NORTHERN ONTARIO

Held and operated by The Hydro-Electric Power Commission

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:		
Northern Ontario Properties	$ 85,377,531.27	
Rural power district	5,970,999.27	
	$ 91,348,530.54	
Less grants in aid of construction—		
Province of Ontario—for rural power district	2,754,053.87	$ 88,594,476.67
CURRENT ASSETS:		
Working funds	$ 18,405.00	
Sundry accounts receivable	71,518.45	
Power accounts receivable	820,041.80	
Interest accrued	18,296.88	
Consumers' deposits—securities	1,659,237.95	
Prepayments	59,151.17	
		2,646,651.25
INVENTORIES:		
Maintenance materials and supplies	$ 976,349.14	
Maintenance tools and equipment	373,796.26	
Office equipment	73,106.88	
		1,423,252.28
DEFERRED CHARGES AND SUNDRY ASSETS:		
Debenture discount and expense	$ 787,993.26	
Account receivable—payable in annual installments 1950-1989	1,990,230.00	
Work in progress—deferred work orders	216,854.67	
		2,995,077.93
INVESTMENTS: (including sinking fund investments of $2,461,398.62)—		
Government and government guaranteed bonds at amortized cost		2,571,501.94
DEFICIT ACCOUNT:		127,361.33
		$ 98,358,321.40

COMMISSION OF ONTARIO

PROPERTIES

of Ontario in trust for the Province of Ontario

OCTOBER 31, 1949

LIABILITIES AND RESERVES

Long Term Liabilities (at par of exchange):		
Funded debt	$ 58,200,000.00	
Advances from the Province of Ontario	4,786,463.54	
		$ 62,986,463.54
Current Liabilities:		
The Hydro-Electric Power Commission of Ontario—current account with Southern Ontario and Thunder Bay systems	$ 811,058.26	
Consumers' deposits	1,898,727.10	
Debenture interest accrued	360,130.66	
Miscellaneous accruals	185,698.11	
		3,255,614.13
Reserves:		
Depreciation	$ 7,687,885.64	
Contingencies and obsolescence	2,721,555.79	
Miscellaneous	214,755.75	
		10,624,197.18
Sinking Fund Reserves:		
Represented by—		
Funded debt and provincial advances retired through sinking funds	$ 19,030,647.93	
Sinking fund investments	2,461,398.62	
		21,492,046.55
		$ 98,358,321.40

Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario as at October 31, 1949 and the attached statements of operations and deficit for the year ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the foregoing balance sheet and related statements of operations and surplus (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties operated by the Commission at October 31, 1949 and of the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 6, 1950.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario

STATEMENT OF OPERATIONS for the year ended October 31, 1949

	Northern Ontario Properties	Rural power district	Total
REVENUE:	$ c.	$ c.	$ c.
Power sold to companies, municipalities and other customers	7,251,509.51	409,619.08	7,661,128.59
COST OF OPERATION:			
Power purchased	407,025.14	6,902.75	413,927.89
Operating, maintenance and administrative expenses	3,345,515.10	326,819.50	3,672,334.60
Interest (including interest on funded debt and reserves less interest earned on investments)	1,958,814.20	58,874.63	2,017,688.83
Provision for depreciation	666,671.61	31,764.36	698,435.97
Provision for sinking fund	617,423.68	18,557.51	635,981.19
Provision for contingencies and obsolescence	380,319.28	7,943.86	388,263.14
Power billed to rural power district by Northern Ontario Properties	*205,878.79*	205,878.79	....
	7,169,890.22	656,741.40	7,826,631.62
NET LOSS OR PROFIT on operations for year	81,619.29	*247,122.32*	*165,503.03*

NOTE: The sinking fund provisions for the year have been computed on a 40-year term basis. In prior years these provisions varied between districts and were based on terms ranging from 15 to 40 years.

Provision for contingencies and obsolescence was made in respect of all depreciable capital in 1949 except equipment in the Abitibi district which is used to serve steam loads. In 1948 no provision was made.

Depreciation was provided in 1949 on the capital in the Patricia and Rainy River districts at the rates used in the other districts. In prior years no depreciation was provided for these two districts.

Statement of Deficit for the Year Ended October 31, 1949

Balance at credit November 1, 1948	$ 38,141.70
Net loss on operations for the year ended October 31, 1949	165,503.03
Balance at debit, October 31, 1949	$ 127,361.33

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
ABITIBI DISTRICT:	$ c.	$ c.	$ c.	$ c.
Power Plants:				
Abitibi river:				
Abitibi Canyon	8,575.23	5,530,862.63	13,461,043.59	19,000,481.45
Frederick House dam	3,567.03	141,588.49	766,098.13	911,253.65
Dasserat Lake diversion		4,220.89	34,471.80	38,692.69
Watabeag Lake dam		6,983.63	64,565.68	71,549.31
	12,142.26	5,683,655.64	14,326,179.20	20,021,977.10
Transformer Stations	242,396.07		2,970,316.21	3,212,712.28
Transmission Lines	37,620.54	654,264.01	6,164,760.34	6,856,644.89
Local Systems	13,581.34		113,143.30	126,724.64
	305,740.21	6,337,919.65	23,574,399.05	30,218,058.91
TIMISKAMING DISTRICT:				
Power Plants:				
Matabitchuan river:				
Matabitchuan	23,080.18	3,240.00	703,685.04	730,005.22
Storage dams	6,672.39		134,545.12	141,217.51
Montreal river:				
Upper Notch	512,859.85	6,534.35	1,706,508.65	2,225,902.85
Fountain Falls	31,056.74		349,751.00	380,807.74
Ragged Chute	437.68		959,172.00	959,609.68
Hound Chute	32,154.45	3,240.00	452,247.94	487,642.39
Indian Chute	4,113.08		442,267.54	446,380.62
Storage dams			166,649.60	166,649.60
Mattagami river:				
Sandy Falls	68,977.41		710,284.49	779,261.90
Wawaitin	95,171.06		1,016,900.65	1,112,071.71
Lower Sturgeon	18,071.18	53,250.00	779,363.56	850,684.74
Storage dams		1,944.00	217,441.20	219,385.20
Intangible		992,057.29		992,057.29
	792,594.02	1,060,265.64	7,638,816.79	9,491,676.45
Transformer Stations	372,523.21		1,492,840.32	1,865,363.53
Transmission Lines	143,789.18	224,761.49	3,073,260.75	3,441,811.42
Office and Service Buildings	530.67	10,450.00	185,166.34	196,147.01
Local Distribution Systems	25,262.45		1,560,272.54	1,585,534.99
	1,334,699.53	1,295,477.13	13,950,356.74	16,580,533.40

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario

FIXED ASSETS—October 31, 1949

Property	Under Construction	In service		Total
		Non-depreciable	Depreciable	
SUDBURY DISTRICT:	$ c.	$ c.	$ c.	$ c.
Power Plants:				
Wanapitei river:				
Coniston	1,196.05	13,597.20	770,096.82	784,890.07
McVittie		13,323.00	393,696.61	407,019.61
Stinson		33,000.00	666,946.07	699,946.07
Storage dam		25.00	194,870.00	194,895.00
Intangible		830,514.53		830,514.53
Sturgeon river:				
Crystal Falls and Storage dams	474.06	44,531.27	1,125,323.07	1,170,328.40
Mississagi river:				
Tunnel	15,287,772.51			15,287,772.51
	15,289,442.62	934,991.00	3,150,932.57	19,375,366.19
Transformer Stations	2,250,795.10		1,730,507.76	3,981,302.86
Transmission Lines	2,231,347.83		734,716.95	2,966,064.78
	19,771,585.55	934,991.00	5,616,157.28	26,322,733.83
NIPISSING DISTRICT:				
Power Plants:				
South river:				
Nipissing		12,089.60	242,280.91	254,370.51
Bingham Chute		12,105.05	263,451.96	275,557.01
Elliot Chute		119,307.09	334,834.33	454,141.42
Storage dams			76,122.70	76,122.70
Intangible		69,478.34		69,478.34
		212,980.08	916,689.90	1,129,669.98
Transformer Stations	2,576.47		85,532.32	88,108.79
Transmission Lines	5,326.14		265,959.89	271,286.03
Local Systems	69.25	1,245.72	25,317.92	26,632.89
	7,971.86	214,225.80	1,293,500.03	1,515,697.69
PATRICIA DISTRICT:				
Power Plants:				
English river:				
Ear Falls	38,345.36	566.75	3,632,547.35	3,671,459.46
Albany river:				
Rat Rapids		39,297.44	575,989.10	615,286.54
	38,345.36	39,864.19	4,208,536.45	4,286,746.00
Transformer Stations	17,389.87		236,450.04	253,839.91
Transmission Lines	268,762.53		3,318,682.62	3,587,445.15
Local Systems	12,120.56		62,000.39	74,120.95
	336,618.32	39,864.19	7,825,669.50	8,202,152.01

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario

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FIXED ASSETS—October 31, 1949

Property	Under Construction	In service		Total
		Non-depreciable	Depreciable	
RAINY RIVER DISTRICT:	$ c.	$ c.	$ c.	$ c.
Transformer Stations	59,142.32		157,231.21	216,373.53
Transmission Lines	4,659.08	349,679.95	910,590.94	1,264,929.97
Local Systems	3,088.82		55,060.49	58,149.31
Intangible		4,086.32		4,086.32
	66,890.22	353,766.27	1,122,882.64	1,543,539.13
NORTHERN ONTARIO PROPERTIES Communications	216,015.99		778,800.31	994,816.30
NORTHERN ONTARIO PROPERTIES RURAL POWER DISTRICT:				
Distribution System:				
H-E.P.C. investment	713,282.25	975.00	2,125,971.78	2,840,229.03
Government grants	708,093.21		2,045,960.66	2,754,053.87
Power Plant (Manitoulin)	1,814.14	43,396.98	180,774.55	225,985.67
Transformer Stns. (Manitoulin)	6,664.25		12,000.00	18,664.25
Transmission Lines (Manitoulin)	321.04		131,745.41	132,066.45
	1,430,174.89	44,371.98	4,496,452.40	5,970,999.27

FIXED ASSETS—Summary, October 31, 1949

Property	Under Construction	In service		Total
		Non-depreciable	Depreciable	
	$ c.	$ c.	$ c.	$ c.
Abitibi district	305,740.21	6,337,919.65	23,574,399.05	30,218,058.91
Timiskaming district	1,334,699.53	1,295,477.13	13,950,356.74	16,580,533.40
Sudbury district	19,771,585.55	934,991.00	5,616,157.28	26,322,733.83
Nipissing district	7,971.86	214,225.80	1,293,500.03	1,515,697.69
Patricia district	336,618.32	39,864.19	7,825,669.50	8,202,152.01
Rainy River district	66,890.22	353,766.27	1,122,882.64	1,543,539.13
Communications	216,015.99		778,800.31	994,816.30
	22,039,521.68	9,176,244.04	54,161,765.55	85,377,531.27
Rural power district	1,430,174.89	44,371.98	4,496,452.40	5,970,999.27
	23,469,696.57	9,220,616.02	58,658,217.95	91,348,530.54
Less grants-in-aid of construction—Province of Ontario for rural power district.				2,754,053.87
				$88,594,476.67

NORTHERN ONTARIO
CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of year	Expenditure during year
POWER PLANTS:	$ c.	$ c.
Abitibi district	20,009,351.26	12,625.84
Timiskaming district	8,392,142.32	1,136,057.46
Sudbury district	9,838,751.16	9,539,905.03
Nipissing district	1,117,649.27	12,020.71
Patricia district	4,061,954.68	255,145.92
Rainy River district	....	4,086.32
	43,419,848.69	10,959,841.28
TRANSFORMER STATIONS:		
Abitibi district	2,909,168.62	308,060.60
Timiskaming district	1,477,133.89	393,435.64
Sudbury district	1,107,018.63	2,874,968.23
Nipissing district	66,646.40	22,153.39
Patricia district	217,964.60	38,177.22
Rainy River district	165,971.43	50,402.10
	5,943,903.57	3,687,197.18
TRANSMISSION LINES:		
Abitibi district	7,073,064.66	55,239.80
Timiskaming district	3,357,359.87	164,479.35
Sudbury district	655,900.51	2,360,392.03
Nipissing district	277,689.53	7,906.25
Patricia district	3,614,369.82	81,816.69
Rainy River district	1,366,757.77	394.56
	16,345,142.16	2,670,228.68
LOCAL SYSTEMS:		
Abitibi district	104,556.72	18,323.35
Timiskaming district	1,525,437.08	87,825.04
Nipissing district	45,519.69	2,196.15
Patricia district	61,997.96	12,133.99
Rainy River district	45,498.04	12,651.27
	1,783,009.49	133,129.80
COMMUNICATIONS	61,236.04	340,662.94
OFFICE AND SERVICE BUILDINGS:		
Timiskaming district	190,851.32	6,195.69
RURAL POWER DISTRICT:		
H-E.P.C. investment	1,237,273.03	1,608,812.30
Government grants	1,161,533.52	1,598,376.65
Power development (Manitoulin)	223,427.23	2,558.44
Transformer stations (Manitoulin)	....	18,664.25
Transmission lines (Manitoulin)	....	132,066.45
	2,622,233.78	3,360,478.09
	70,366,225.05	21,157,733.66
Less grants-in-aid of construction— Province of Ontario for rural power district	1,161,533.52	1,592,520.35
	69,204,691.53	19,565,213.31

PROPERTIES
During Year Ended October 31, 1949

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserve for depreciation and contingencies	
$ c.	$ c.	$ c.	$ c.
			20,021,977.10
		36,523.33	9,491,676.45
	684.59	*2,605.41*	19,375,366.19
			1,129,669.98
	9.60	*30,345.00*	4,286,746.00
			4,086.32
	694.19	*69,473.74*	54,309,522.04
		4,516.94	3,212,712.28
		5,206.00	1,865,363.53
		684.00	3,981,302.86
	35.00	*656.00*	88,108.79
		2,301.91	253,839.91
			216,373.53
	35.00	*13,364.85*	9,617,700.90
267,091.35		*4,568.22*	6,856,644.89
56,831.07	*1,091.73*	*22,105.00*	3,441,811.42
50,227.76			2,966,064.78
14,309.75			271,286.03
102,235.03		*6,506.33*	3,587,445.15
102,222.36			1,264,929.97
592,917.32	*1,091.73*	*33,179.55*	18,388,182.24
4,201.76		*357.19*	126,724.64
25,437.13		*2,290.00*	1,585,534.99
20,860.75		*222.20*	26,632.89
		11.00	74,120.95
			58,149.31
42,096.12		*2,880.39*	1,871,162.78
592,917.32			994,816.30
		900.00	196,147.01
21,048.06	*26,662.96*	*241.40*	2,840,229.03
21,048.06	*26,662.97*	*241.39*	2,754,053.87
			225,985.67
			18,664.25
			132,066.45
42,096.12	*53,325.93*	*482.79*	5,970,999.27
	55,146.85	*120,281.32*	91,348,530.54
			2,754,053.87
	55,146.85	*120,281.32*	88,594,476.67
	Depreciation..........	9,855.71	
	Contingencies.........	110,425.61	

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario

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DEPRECIATION RESERVE—October 31, 1949

Balance at November 1, 1948		$6,729,420.84
Interest at 4% on reserve balance	$269,176.83	
Provision in the year	698,435.97	
Adjustment in respect of equipment transferred during the year.	6,300.40	
		973,913.20
		$7,703,334.04
Deduct:		
Amounts withdrawn for renewals	$518.32	
Amounts withdrawn in respect of assets removed from service etc.	9,855.71	
Excess reserve accumulated against assets removed from service—transferred to contingency reserve	5,074.37	
		15,448.40
Balance at October 31, 1949		$7,687,885.64

CONTINGENCIES AND OBSOLESCENCE RESERVE—October 31, 1949

Balance at November 1, 1948		$2,534,680.05
Interest at 4% on reserve balance	$101,387.20	
Provision in year	388,263.14	
Excess depreciation reserve accumulated against assets removed from service—transferred from depreciation reserve	5,074.37	
Adjustments arising from the transfer of equipment, etc.	3,634.81	
		498,359.52
		$3,033,039.57
Deduct:		
Contingencies met with during the year	$201,058.17	
Excess of cost of fixed assets retired over accumulated depreciation reserve	110,425.61	
		311,483.78
Balance at October 31, 1949		$2,721,555.79

SINKING FUND RESERVE—October 31, 1949

Balance at November 1, 1948		$20,104,456.29
Interest at 4% on reserve balance	$751,609.07	
Provision in the year	635,981.19	
		1,387,590.26
Balance at October 31, 1949		$21,492,046.55

SECTION X

MUNICIPAL ACCOUNTS

and

Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

THE Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these Hydro utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1949 this standard method of accounting was installed in Frankford, Larder Lake Township, McGarry Improvement District, Newboro, Newburgh, Oakville and Schreiber Township.

Periodical inspections are made of the books of all Hydro electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement ensures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combines the balance sheets of all local municipal Hydro utilities receiving power under cost contracts. It is worth noting that the total plant value has increased from $10,081,469.16 in 1913 to $136,745,778.92 in 1949, and the total assets from $11,907,826.86 to $274,484,001.03. The liabilities have not increased in the same proportion as the assets, rising from $10,468,351.79 to a maximum of $52,685,316.86 in 1932, and receding to $14,139,918.12 in 1949. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; from 88.0 per cent in 1913 to 7.0 per cent in 1949. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal Hydro utilities receiving power under cost contracts. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of $3,196,689.48 for 1949. (See also diagrams in Foreword to Report.)

The four statements, "A" to "D", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "C" all municipalities are arranged alphabetically; in statement "D" the municipalities are arranged alphabetically in four groups—cities, suburban areas, towns and small municipalities.

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The total thus returned to customers during the year 1949 amounted in round figures to $288,000.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled;

and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 33.7 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of $155,618,441.21, being equal to 113.8 per cent of the total plant cost.

Statement "B" shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "cost of power supplied by H-E.P.C." in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.*

Of the 315 municipal electrical utilities included in this statement, 306 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of $3,251,849.18 for the year; the other nine were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating $55,159.70.

Statement "C" presents the cost per kilowatt of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1949, for domestic service, for commercial light service and for power service.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average kilowatts supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 306.

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*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the Balance Sheet shows the previous year's equity in Hydro Commission properties; and the Cost of Power in the Operating Statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

Year	1942	1943	1944
Number of municipalities included	297	298	298
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	11,546,286.55	11,664,887.81	11,713,108.74
Substation equipment	25,359,352.47	25,392,202.96	25,805,344.10
Distribution system—overhead	25,572,132.86	25,773,224.22	26,075,416.77
Distribution system—underground	6,446,133.75	6,451,393.47	6,385,742.19
Line transformers	12,209,624.79	12,353,367.17	12,698,080.21
Meters	10,938,305.73	11,117,612.15	11,339,479.64
Street lighting equipment—regular	2,928,896.30	2,903,704.11	2,926,365.70
Street lighting equipment—ornamental	1,543,717.00	1,542,294.82	1,542,819.42
Miscellaneous construction expenses	4,091,006.92	3,740,027.08	3,414,557.25
Steam or hydraulic plant	422,172.72	397,576.71	368,022.38
Old plant	1,028,830.05	936,561.90	820,607.24
Total plant	102,086,459.14	102,272,852.40	103,089,543.64
Bank and cash balance	2,482,945.50	2,341,996.68	1,947,073.36
Securities and investments	12,592,455.09	17,037,057.29	21,245,620.67
Accounts receivable	3,614,066.68	3,347,449.72	3,710,514.76
Inventories	2,047,430.38	1,750,799.42	1,622,866.57
Sinking fund on local debentures	5,445,199.46	5,028,551.56	4,880,499.77
Equity in H-E.P.C. systems	57,080,491.77	62,031,673.13	69,486,548.01
Other assets	197,190.92	537,366.80	192,661.46
Frequency standardization expenditure in suspense	....	....	....
Total assets	185,546,238.94	194,347,747.00	206,175,328.24
LIABILITIES			
Debenture balance	16,184,642.53	13,657,032.51	11,612,359.10
Accounts payable	2,399,404.91	2,699,630.77	1,701,420.70
Bank overdraft	105,571.05	118,834.40	174,491.81
Other liabilities	2,806,844.10	2,618,742.94	2,584,979.26
Total liabilities	21,496,462.59	19,094,240.62	16,073,250.87
RESERVES			
For equity in H-E.P.C. systems	57,080,491.77	62,031,673.13	69,486,548.01
For depreciation	29,840,207.73	32,138,469.64	34,006,953.37
Other reserves	4,907,609.88	5,449,398.96	6,308,596.82
Total reserves	91,828,309.38	99,619,541.73	109,802,098.20
SURPLUS			
Debentures paid	41,183,741.27	43,552,091.22	45,475,788.84
Local sinking fund	5,445,199.46	5,028,551.56	4,880,499.77
Operating surplus	25,592,526.24	27,053,321.87	29,943,690.56
Net frequency standardization expense charged this year	....	....	....
Total surplus	72,221,466.97	75,633,964.65	80,299,979.17
Total liabilities, reserves and surplus	185,546,238.94	194,347,747.00	206,175,328.24
Percentage of net debt to total assets	11.9	10.0	7.4

BALANCE SHEETS

1945	1946	1947	1948	1949
304	304	304	308	315
$ c.	$ c.	$ c.	$ c.	$ c.
11,879,469.56	11,830,325.45	12,220,747.92	12,981,533.46	13,759,701.81
26,201,620.92	26,778,943.63	28,430,102.81	29,626,621.36	32,405,939.81
26,835,864.78	27,810,938.64	29,230,801.09	31,541,077.08	34,325,936.81
6,539,797.63	6,848,694.50	7,400,874.88	8,040,205.01	8,663,874.53
13,360,997.73	14,247,872.95	15,698,549.76	17,593,431.84	19,267,220.87
11,742,720.68	12,325,105.86	13,112,187.77	13,948,013.24	15,050,359.45
3,066,246.06	3,268,433.46	3,827,634.40	4,486,158.98	4,847,993.56
1,551,628.63	1,555,698.39	1,536,957.94	1,558,798.17	1,564,378.72
3,469,256.69	3,802,802.98	4,242,837.80	4,290,247.58	4,608,566.91
1,005,980.83	1,080,730.83	1,080,976.81	1,457,291.81	1,478,544.77
692,517.55	658,421.95	587,479.45	573,313.04	773,261.68
106,346,101.06	110,207,968.64	117,369,150.63	126,096,691.57	136,745,778.92
1,744,827.39	3,584,075.84	2,759,333.88	3,480,104.26	2,654,186.08
27,530,379.33	27,152,189.81	27,721,988.41	26,691,542.33	24,109,961.67
3,682,108.35	4,133,184.23	4,381,276.48	3,987,098.82	4,878,682.68
1,735,925.21	2,193,231.80	3,140,379.57	3,814,953.93	4,229,137.22
4,952,718.62	4,609,214.16	4,387,586.13	1,795,295.61	569,497.99
75,002,351.38	80,670,336.85	86,574,096.81	92,889,067.86	100,051,662.98
290,022.85	326,083.52	543,728.14	541,982.60	1,089,348.62
....	....	....	....	155,744.87
221,284,434.19	232,876,284.85	246,877,540.05	259,296,736.98	274,484,001.03
10,612,595.02	9,049,583.60	7,947,290.14	5,297,137.36	4,545,744.63
2,528,081.42	2,267,268.71	3,028,306.12	3,813,817.24	5,666,357.71
429,585.64	355,417.71	613,465.91	839,973.70	943,682.84
2,707,515.21	2,636,251.52	2,642,971.05	2,841,344.30	2,984,132.94
16,277,777.29	14,308,521.54	14,232,033.22	12,792,272.60	14,139,918.12
75,002,351.38	80,670,336.85	86,574,096.81	92,889,067.86	100,051,662.98
36,331,919.08	38,253,203.71	40,146,511.52	41,962,273.09	43,893,598.38
6,979,074.47	7,356,359.46	5,788,442.87	4,545,757.39	4,673,978.72
118,313,344.93	126,279,900.02	132,509,051.20	139,397,098.34	148,619,240.08
47,340,018.06	48,935,858.04	50,208,313.28	53,457,629.91	55,525,205.90
4,952,718.62	4,609,214.16	4,387,586.13	1,795,295.61	569,497.99
34,400,575.29	38,742,791.09	45,540,556.22	51,854,440.52	55,638,367.30
....	....	....	....	*8,228.36*
86,693,311.97	92,287,863.29	100,136,455.63	107,107,366.04	111,724,842.83
221,284,434.19	232,876,284.85	246,877,540.05	259,296,736.98	274,484,001.03
7.0	5.6	5.4	5.2	7.0

CONSOLIDATED

YEAR	1942	1943	1944
Number of municipalities included	297	298	298
EARNINGS	$ c.	$ c.	$ c.
Domestic service	14,874,937.14	14,933,681.48	15,371,752.19
Commercial light service	7,604,860.27	6,713,348.61	7,219,403.43
Commercial power service	15,433,320.91	15,687,273.31	16,222,143.48
Municipal power	2,026,826.92	2,031,027.12	2,111,454.22
Street lighting	1,820,216.28	1,686,149.29	1,729,320.48
Merchandise	50,276.58	31,300.28	35,378.31
Miscellaneous	680,825.29	782,170.04	897,433.28
Total earnings	42,491,263.39	41,864,950.13	43,586,885.39
EXPENSES			
Cost of power supplied by H-E.P.C.	26,459,900.78	26,587,877.32	26,937,460.31
Substation operation	581,259.02	612,227.01	611,878.05
Substation maintenance	361,643.95	370,797.74	419,983.12
Distribution system, operation and maintenance	1,087,818.81	1,143,720.84	1,147,646.14
Line transformer maintenance	133,888.95	145,094.88	145,701.29
Meter maintenance	440,877.18	443,307.27	445,437.44
Consumers' premises expenses	513,565.10	527,810.36	513,953.14
Street lighting, operation and maintenance	397,614.93	380,405.50	445,945.93
Promotion of business	193,692.33	171,894.14	156,566.54
Billing and collecting	1,171,345.63	1,226,185.63	1,264,759.35
General office, salaries and expenses	1,067,535.39	1,117,334.29	1,139,174.46
Undistributed expense	553,599.71	510,448.34	522,204.17
Truck operation and maintenance	99,379.20	94,830.33	104,222.84
Interest	973,383.83	844,161.48	707,925.20
Sinking fund and principal payments on debentures	2,006,148.29	1,871,119.81	1,564,537.45
Depreciation	2,853,619.59	2,915,395.96	2,668,439.61
Other reserves	732,579.23	951,711.62	852,675.21
Total operating costs and fixed charges	39,627,851.92	39,914,322.52	39,648,510.25
Net surplus	2,863,411.47	1,950,627.61	3,938,375.14
NUMBER OF CONSUMERS			
Domestic service	554,115	565,109	574,469
Commercial light service	76,423	75,565	77,376
Power service	13,639	13,761	13,792
Total	644,177	654,435	665,637

OPERATING REPORTS

1945	1946	1947	1948	1949
304	304	304	308	315
$ c.	$ c.	$ c.	$ c.	$ c.
15,543,145.28	16,852,308.83	18,172,574.54	19,506,499.27	21,137,834.75
8,150,923.90	8,979,037.16	9,819,043.11	9,766,500.29	10,444,393.84
15,544,085.89	15,707,154.73	17,613,525.22	18,235,664.95	19,178,070.91
2,134,062.24	2,161,079.81	2,216,812.71	2,343,112.69	2,475,539.80
1,922,281.13	1,975,024.68	2,057,215.86	2,153,034.35	2,219,551.02
65,590.57	179,252.65	233,117.94	221,544.94	216,734.17
1,097,719.02	1,210,440.76	1,267,485.38	1,268,351.70	1,231,076.24
44,457,808.03	47,064,298.62	51,379,774.76	53,494,708.19	56,903,200.73
26,633,166.70	29,131,997.88	31,760,128.32	32,432,823.73	36,225,068.75
654,305.46	753,931.65	855,965.41	1,019,515.46	1,126,138.22
423,473.57	444,276.75	475,837.06	595,059.49	626,041.76
1,243,381.36	1,404,441.08	1,628,081.77	1,967,371.30	2,110,892.72
155,240.82	168,429.61	219,164.00	249,212.31	279,383.13
470,203.18	528,810.47	607,758.38	699,593.39	751,382.32
581,603.20	699,773.37	822,675.89	1,005,146.07	1,061,668.85
487,565.20	493,443.23	547,556.40	602,995.88	688,584.31
171,063.89	183,606.79	231,488.57	343,395.13	282,618.04
1,305,542.48	1,428,246.45	1,643,780.22	1,872,644.99	2,077,074.94
1,201,915.79	1,319,972.30	1,521,688.93	1,814,028.57	1,961,727.80
640,831.75	831,176.06	840,075.97	803,047.22	833,337.54
123,720.21	147,458.42	202,997.29	243,560.50	269,151.54
710,300.94	525,588.16	423,041.93	339,213.78	305,084.60
1,255,825.57	1,239,108.29	992,793.11	903,443.37	842,182.95
2,736,906.64	2,824,871.68	3,002,877.86	3,278,262.63	3,631,483.76
1,216,822.19	1,503,255.70	1,478,990.80	1,051,522.24	634,690.02
40,011,868.95	43,628,387.89	47,254,901.91	49,220,836.06	53,706,511.25
4,445,939.08	3,435,910.73	4,124,872.85	4,273,872.13	3,196,689.48
590,723	606,046	625,705	649,220	684,417
81,118	85,400	87,937	91,382	94,881
14,339	15,115	15,867	16,439	17,184
686,180	706,561	729,509	757,041	796,482

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population	2,412	P.V.	501	2,194	2,009
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,627.38			202.00	
Substation equipment	2,318.36				675.73
Distribution system—overhead	39,882.32	15,835.23	8,557.36	30,990.24	39,960.28
Distribution system—underground					
Line transformers	25,687.61	12,509.84	5,262.50	18,794.28	16,006.94
Meters	18,315.53	5,773.13	3,818.31	12,735.47	14,902.46
Street light equipment, regular	2,887.70	3,042.88	457.58	3,345.83	5,938.20
Street light equipment, ornamental					
Miscellaneous construction expense	2,733.89	461.72	492.36	690.04	2,130.74
Steam or hydraulic plant					
Old plant					7,846.49
Total plant	93,452.79	37,622.80	18,588.11	66,757.86	87,460.84
Bank and cash balance	7,833.45	1,976.86	23.50	12,238.29	
Securities and investments	7,000.00	12,000.00	8,500.00	33,000.00	15,000.00
Accounts receivable	1,210.18	694.14	727.27	3,278.88	1,275.61
Inventories	965.20				1.80
Sinking fund on local debentures					
Equity in H-E.P.C. systems	136,640.72	21,297.27	25,847.77	51,194.45	45,332.49
Other assets	34.00				1,691.83
Frequency standardization expenditure in suspense	94.75				
Total assets	247,231.09	73,591.07	53,686.65	166,469.48	150,762.57
Liabilities					
Debenture balance					
Accounts payable	373.84	60.00	189.03		601.01
Bank overdraft					757.83
Other liabilities	2,094.90		115.00	1,684.96	306.50
Total liabilities	2,468.74	60.00	304.03	1,684.96	1,665.34
Reserves					
For equity in H-E.P.C. systems	136,640.72	21,297.27	25,847.77	51,194.45	45,332.49
For depreciation	14,844.12	7,156.59	8,422.32	23,796.04	13,949.06
Other reserves		17.23			63.51
Total reserves	151,484.84	28,471.09	34,270.09	74,990.49	59,345.06
Surplus					
Debentures paid	14,500.00	8,072.65	6,883.38	38,299.23	37,736.04
Local sinking fund					
Operating surplus	*78,777.51	36,987.33	12,229.15	51,494.80	52,016.13
Net frequency standardization expense charged this year					
Total surplus	93,277.51	45,059.98	19,112.53	89,794.03	89,752.17
Total liabilities, reserves and surplus	247,231.09	73,591.07	53,686.65	166,469.48	150,762.57
Percentage of net debt to total assets	2.2	0.1	1.1	1.5	1.6

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"

Hydro Municipalities as at December 31, 1949

Almonte 2,623	Alvinston 668	Amherstburg 3,313	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 389	Arnprior 4,552
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
10,037.25	2,058.60	...	354.71	169.06	...	8,241.00
24,581.90	...	...	...	...	...	...
38,990.29	17,732.70	58,911.61	37,840.79	3,064.80	11,128.32	39,967.30
...	...	657.77	...	...	...	...
22,456.79	5,169.47	47,646.38	22,994.31	1,792.47	3,521.48	26,900.52
15,978.50	4,901.80	23,323.88	9,890.87	1,545.56	3,129.45	20,910.24
6,592.01	1,473.27	3,079.79	1,863.96	421.12	1,378.88	14,080.82
...	...	5,598.72	...	...	...	...
1,343.00	200.00	3,838.79	1,424.13	7.85	288.24	53.41
110,647.67	...	...	...	...	...	...
...	...	...	...	...	...	...
230,627.41	31,535.84	143,056.94	74,368.77	7,000.86	19,446.37	110,153.29
16,533.92	6,057.49	1,757.24	...	5,421.16	3,100.38	6,808.90
8,000.00	11,000.00	20,350.00	...	4,000.00	4,000.00	39,000.00
3,252.04	156.06	1,727.45	1,352.86	87.42	57.56	790.18
6,966.02	...	185.14	554.40	...	...	10,603.48
...	...	...	...	...	...	...
4,646.90	25,917.21	103,845.29	34,134.79	5,853.84	11,571.87	30,163.91
...	...	19.32	...	...	...	...
...	...	...	...	...	...	...
270,026.29	74,666.60	270,941.38	110,410.82	22,363.28	38,176.18	197,519.76
17,231.13	...	...	...	...	...	3,612.08
4,592.91	435.82	222.32	19,473.31	540.87	710.17	6,809.68
...	...	...	566.44	...	...	...
541.78	55.00	6,303.83	303.35	...	27.69	2,181.15
22,365.82	490.82	6,526.15	20,343.10	540.87	737.86	12,602.91
4,646.90	25,917.21	103,845.29	34,134.79	5,853.84	11,571.87	30,163.91
46,718.34	14,318.65	38,951.15	11,982.60	3,794.41	6,418.00	9,442.40
1,556.52	59.50	413.56	48.02	...	...	...
52,921.76	40,295.36	143,210.00	46,165.41	9,648.25	17,989.87	39,606.31
54,768.87	23,529.24	32,053.60	14,110.28	5,080.12	13,112.83	51,857.05
...	...	...	...	...	...	...
139,969.84	10,351.18	89,151.63	29,792.03	7,094.04	6,335.62	93,453.49
...	...	...	...	...	...	...
194,738.71	33,880.42	121,205.23	43,902.31	12,174.16	19,448.45	145,310.54
270,026.29	74,666.60	270,941.38	110,410.82	22,363.28	38,176.18	197,519.76
8.4	1.0	4.0	26.7	3.3	2.8	7.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Arthur	Athens	Aurora	Aylmer	Ayr
Population	1,192	760	3,392	3,280	837
	$ c.	$ c.	$ c.	$ c.	$ c.
Assets					
Lands and buildings			1,000.00	11,147.41	125.00
Substation equipment			1,491.05		
Distribution system—overhead	19,233.61	14,799.19	44,067.36	42,955.55	14,651.71
Distribution system—underground					
Line transformers	12,706.12	4,096.74	31,607.25	39,221.35	8,664.07
Meters	6,234.28	4,243.62	21,248.57	21,677.67	5,747.25
Street light equipment, regular	2,214.38	698.90	7,991.81	10,199.97	1,170.78
Street light equipment, ornamental					
Miscellaneous construction expense	620.69	84.34	13,457.05	6,835.90	222.43
Steam or hydraulic plant					
Old plant	1,086.62				4,002.53
Total plant	42,095.70	23,922.79	120,863.09	132,037.85	34,583.77
Bank and cash balance		6,015.70	30.00	1,781.11	1,150.06
Securities and investments	4,000.00	9,000.00	12,000.00	12,000.00	8,171.79
Accounts receivable	100.28	2,340.68	475.75	1,871.53	819.57
Inventories				19.97	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	33,650.58	12,525.13	22,602.34	84,246.09	27,588.24
Other assets				1.14	
Frequency standardization expenditure in suspense			53.49		
Total assets	79,846.56	53,804.30	156,024.67	231,957.69	72,313.43
Liabilities					
Debenture balance	1,681.44				
Accounts payable	601.88	2,337.27		790.10	
Bank overdraft	109.52		241.52		
Other liabilities	352.60		864.00	1,047.66	78.64
Total liabilities	2,745.44	2,337.27	1,105.52	1,837.76	78.64
Reserves					
For equity in H-E.P.C. systems	33,650.58	12,525.13	22,602.34	84,246.09	27,588.24
For depreciation	16,795.14	4,794.11	34,252.97	33,920.86	8,911.10
Other reserves		206.06		622.24	
Total reserves	50,445.72	17,525.30	56,855.31	118,789.19	36,499.34
Surplus					
Debentures paid	23,318.56	12,988.39		38,701.92	17,503.38
Local sinking fund					
Operating surplus	3,336.84	20,953.34	*98,063.84	72,628.82	18,232.07
Net frequency standardization expense charged this year					
Total surplus	26,655.40	33,941.73	98,063.84	111,330.74	35,735.45
Total liabilities, reserves and surplus	79,846.56	53,804.30	156,024.67	231,957.69	72,313.43
Percentage of net debt to total assets	5.9	5.7	0.8	1.2	0.2

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Baden	Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton
P.V.	11,914	368	P.V.	1,591	943	579
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
882.40	27,840.54	....	176.13	....	499.50	....
....	74,266.38	....	....	....	....	428.50
11,454.89	105,192.45	11,391.04	19,076.01	21,999.76	28,172.02	13,568.25
....	66,582.89	....	....	....	....	....
5,020.40	83,066.00	2,010.90	9,579.83	14,338.23	12,634.10	3,689.32
5,413.73	82,175.73	1,806.04	5,426.72	10,833.23	9,425.87	3,674.87
748.17	14,327.10	762.80	542.79	3,086.49	2,028.87	2,275.07
....	....	....	....	....	....	....
207.17	2,075.00	727.38	1,351.13	....	98.18	170.13
....	....	....	....	....	....	....
....	....	....	....	....	....	....
23,726.76	455,526.09	16,698.16	36,152.61	50,257.71	52,858.54	23,806.14
8,184.39	16,815.04	603.17	2,853.38	5,147.42	336.69	919.93
6,500.00	118,100.00	....	21,500.00	25,000.00	7,200.00	7,000.00
33.69	3,811.40	125.34	737.98	508.86	317.66	102.12
....	17,481.75	....	....	....	....	....
....	....	....	....	....	....	....
57,046.80	301,984.07	4,544.75	74,880.87	16,238.60	35,696.52	26,467.66
....	188.07	....	....	....	1,183.01	....
....	....	....	....	....	....	....
95,491.64	913,906.42	21,971.42	136,124.84	97,152.59	97,592.42	58,295.85
....	....	1,693.21	....	....	....	....
....	103.03	1.34	3,223.99	963.78	488.49	37.96
....	....	....	....	....	....	....
10.00	6,547.27	180.00	....	908.90	1,215.27	150.00
10.00	6,650.30	1,874.55	3,223.99	1,872.68	1,703.76	187.96
57,046.80	301,984.07	4,544.75	74,880.87	16,238.60	35,696.52	26,467.66
4,654.47	161,297.57	3,947.67	11,091.47	14,983.69	21,564.60	8,245.00
....	400.00	....	....	....	400.00	86.50
61,701.27	463,681.64	8,492.42	85,972.34	31,222.29	57,661.12	34,799.16
5,000.00	65,365.68	5,806.79	5,536.66	37,500.00	12,839.34	13,610.31
....	....	....	....	....	....	....
28,780.37	378,208.80	5,797.66	41,391.85	26,557.62	25,388.20	9,698.42
....	....	....	....	....	....	....
33,780.37	443,574.48	11,604.45	46,928.51	64,057.62	38,227.54	23,308.73
95,491.64	913,906.42	21,971.42	136,124.84	97,152.59	97,592.42	58,295.85
0.0	1.1	10.8	5.3	2.3	2.8	0.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population	1,250	17,637	2,272	622	690
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	204.20	44,883.51	14,874.79		
Substation equipment		137,925.17	1,264.64		
Distribution system—overhead	27,396.11	203,685.05	52,049.27	11,766.22	13,953.49
Distribution system—underground					
Line transformers	9,998.46	84,021.86	23,249.97	3,421.71	6,666.59
Meters	8,191.13	112,402.92	19,316.01	4,198.74	4,224.28
Street light equipment, regular	2,720.54	45,097.86	5,208.95	1,084.15	1,554.68
Street light equipment, ornamental			1,482.97		
Miscellaneous construction expense	274.69	28,015.98	468.50		323.08
Steam or hydraulic plant					
Old plant					
Total plant	48,785.13	656,032.35	117,915.10	20,470.82	26,722.12
Bank and cash balance			573.66	1,000.37	3,567.46
Securities and investments	2,000.00	35,000.00	4,000.00	17,500.00	8,000.00
Accounts receivable	103.59	34,472.08	830.15	177.96	529.34
Inventories		29,123.07	1,847.00		
Sinking fund on local debentures					
Equity in H-E.P.C. systems	20,518.47	367,644.50	68,795.86	12,286.36	18,290.83
Other assets					
Frequency standardization expenditure in suspense					
Total assets	71,407.19	1,122,272.00	193,961.77	51,435.51	57,109.75
LIABILITIES					
Debenture balance					
Accounts payable	993.75		2,811.37	309.77	488.97
Bank overdraft	196.65	2,033.98			
Other liabilities	320.02	16,744.14	1,772.97	185.00	173.79
Total liabilities	1,510.42	18,778.12	4,584.34	494.77	662.76
RESERVES					
For equity in H-E.P.C. systems	20,518.47	367,644.50	68,795.86	12,286.36	18,290.83
For depreciation	14,314.77	111,118.43	33,234.91	10,164.05	8,761.22
Other reserves		4,706.31	279.09		
Total reserves	34,833.24	483,469.24	102,309.86	22,450.41	27,052.05
SURPLUS					
Debentures paid	8,500.00	174,997.19	14,000.00	9,796.58	16,032.52
Local sinking fund					
Operating surplus	26,563.53	445,027.45	73,067.57	18,693.75	13,362.42
Net frequency standardization expense charged this year					
Total surplus	35,063.53	620,024.64	87,067.57	28,490.33	29,394.94
Total liabilities, reserves and surplus	71,407.19	1,122,272.00	193,961.77	51,435.51	57,109.75
Percentage of net debt to total assets	3.0	2.5	2.5	1.3	1.7

"A"—Continued

Hydro Municipalities as at December 31, 1949

Bobcaygeon	Bolton	Bothwell	Bowmanville	Bradford	Braeside	Brampton
1,080	796	704	4,315	1,373	420	7,124
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
740.00	....	....	35,685.49	5,644.18	....	6,175.76
....	....	....	63,019.08	388.50	....	53,005.67
30,574.18	14,472.42	9,961.60	59,401.81	31,762.61	3,557.76	79,210.23
....	....	....	....	....	....	....
10,490.48	9,478.10	5,439.15	23,414.07	15,158.68	2,290.28	76,408.36
10,129.49	5,714.75	4,715.65	31,500.38	12,523.07	1,916.25	48,030.08
5,676.53	902.39	4,709.03	10,257.05	1,022.42	62.94	13,887.44
....	....	1,131.22	....	....	....	....
196.00	1,918.42	700.87	16,181.40	2,304.72	....	3,525.00
75,000.00	....	....	....	....	....	....
....	....	....	....	....	....	....
132,806.68	32,486.08	26,657.52	239,459.28	68,804.18	7,827.23	280,242.54
....	6,422.40	....	35,788.74	4,607.79	4,772.64	1,109.32
....	12,000.00	13,000.00	85,000.00	2,500.00	....	51,500.00
291.86	155.27	183.12	9,593.71	523.93	942.91	255.58
2,267.19	283.00	....	12,136.69	4,819.34	....	6,208.14
....	....	....	....	....	....	....
1,508.57	31,014.86	28,688.89	141,446.78	33,345.90	1,982.27	307,995.31
....	....	....	6.46	200.00	....	126.82
....	....	....	....	....	....	....
136,874.30	82,361.61	68,529.53	523,431.66	114,801.14	15,525.05	647.437,71
35,561.86	....	....	....	....	4,908.60	....
2,849.92	268.43	1,266.00	13,585.94	466.18	419.58	2,939.19
61.25	....	24.01	....	....	....	3,838.32
....	241.39	1,232.17	1,783.32	687.44	135.00	2,350.00
38,473.03	509.82	2,522.18	15,369.26	1,153.62	5,463.18	9,127.51
1,508.57	31,014.86	28,688.89	141,446.78	33,345.90	1,982.27	307,995.31
35,747.69	10,419.57	10,062.09	37,706.95	18,558.13	733.25	95,967.75
....	....	15.13	....	29.88	....	150.00
37,256.26	41,434.43	38,766.11	179,153.73	51,933.91	2,715.52	404,113.06
54,438.14	12,500.00	5,534.19	71,000.00	23,351.06	1,091.40	69,050.64
....	....	....	....	....	....	....
6,706.87	27,917.36	21,707.05	257,908.67	38,362.55	6,254.95	165,146.50
....	....	....	....	....	....	....
61,145.01	40,417.36	27,241.24	328,908.67	61,713.61	7,346.35	234,197.14
136,874.30	82,361.61	68,529.53	523,431.66	114,801.14	15,525.05	647.437,71
28.4	1.0	4.7	4.0	1.4	40.3	2.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Brantford 35,807	Brantford Twp. V.A.	Brechin P.V.	Bridgeport P.V.	Brigden P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	181,406.47	2,930.39	....	....	1,482.03
Substation equipment	304,721.96	44,460.40	....	....	....
Distribution system—overhead	340,513.70	165,552.45	1,589.54	15,670.05	11,807.75
Distribution system—underground	2,277.51	....	....	....	....
Line transformers	304,677.12	66,974.50	2,432.89	9,496.59	4,150.39
Meters	214,049.34	55,340.33	1,058.32	5,601.81	3,953.21
Street light equipment, regular	55,678.22	13,151.30	197.38	1,789.35	509.23
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	48,159.58	9,156.91	546.92	15.86	108.60
Steam or hydraulic plant	....	....	....	....	....
Old plant	6,000.00	....	....	....	....
Total plant	1,457,483.90	357,566.28	5,825.05	32,573.66	22,011.21
Bank and cash balance	4,021.05	15,489.71	2,534.34	2,037.13	2,167.14
Securities and investments	137,000.00	13,000.00	2,500.00	2,000.00	6,800.00
Accounts receivable	24,962.96	1,826.85	33.89	197.75	95.82
Inventories	45,477.28	7,709.29	24.42	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	1,724,930.06	78,300.35	12,376.09	13,503.85	20,168.69
Other assets	384.77	263.50	....	....	....
Frequency standardization expenditure in suspense	1,425.00	....	....	....	....
Total assets	3,395,685.02	474,155.98	23,293.79	50,312.39	51,242.86
LIABILITIES					
Debenture balance	....	176,341.08	102.77	....	....
Accounts payable	29,804.57	11,364.27	168.44	1,265.48	653.05
Bank overdraft	29,213.05	....	....	....	....
Other liabilities	32,496.05	1,887.56	25.00	210.00	5.00
Total liabilities	91,513.67	189,592.91	296.21	1,475.48	658.05
RESERVES					
For equity in H-E.P.C. systems	1,724,930.06	78,300.35	12,376.09	13,503.85	20,168.69
For depreciation	510,636.49	66,980.15	795.09	10,182.50	6,782.61
Other reserves	8,789.29	65.86	8.49	....	97.24
Total reserves	2,244,355.84	145,346.36	13,179.67	23,686.35	27,048.54
SURPLUS					
Debentures paid	530,000.00	70,784.58	3,108.15	12,368.03	8,000.00
Local sinking fund	....	....	....	....	....
Operating surplus	*529,815.51	68,432.13	6,709.76	12,782.53	15,536.27
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	1,059,815.51	139,216.71	9,817.91	25,150.56	23,536.27
Total liabilities, reserves and surplus	3,395,685.02	474,155.98	23,293.79	50,312.39	51,242.86
Percentage of net debt to total assets	5.5	47.9	2.7	4.0	2.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Brighton	Brockville	Brussels	Burford	Burgessville	Burlington	Caledonia
1,947	11,852	772	P.V.	P.V.	5,105	1,500
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
600.00	51,369.35	....	802.00	....	18,281.47	656.01
....	156,655.84	....	....	....	3,900.00	....
26,966.11	125,482.76	24,132.28	13,610.62	4,531.72	116,346.38	27,261.68
....	....	....	....	....	....	....
10,486.72	85,801.13	7,548.91	8,022.35	4,944.01	53,130.82	15,347.87
10,715.07	70,250.25	6,155.81	6,925.98	1,874.76	40,901.59	11,545.03
1,305.85	31,119.19	1,707.79	524.76	261.02	11,025.74	3,297.36
....	....	....	....	....	....	....
1,487.04	3,636.80	251.01	105.17	35.00	13,217.56	1,388.40
....	....	....	....	....	....	....
....	....	....	....	....	....	....
51,560.79	524,315.32	39,795.80	29,990.88	11,646.51	256,803.56	59,496.35
3,749.46	12,035.37	920.46	....	1,488.08	9,507.25	831.23
10,000.00	53,450.00	15,000.00	4,000.00	2,800.00	7,600.00	200.00
4,665.59	17,132.28	872.30	672.05	26.40	1,078.74	969.59
6,436.76	8,685.90	....	15.37	....	987.22	2,684.18
....	....	....	....	....	....	....
25,536.05	344,915.39	23,976.06	25,550.36	9,450.94	16,397.25	41,440.81
....	1,005.05	100.00	30.00	....	31,697.62	69.00
....	....	....	....	....	....	....
101,948.65	961,539.31	80,664.62	60,258.66	25,411.93	324,071.64	105,691.16
....	....	....	....	....	104,973.13	4,500.00
482.56	13,187.56	6,827.11	452.15	109.17	5,267.54	219.72
....	....	....	1,484.19	....	....	....
1,220.39	5,719.53	104.55	105.30	17.50	4,792.50	505.69
1,702.95	18,907.09	6,931.66	2,041.64	126.67	115,033.17	5,225.41
25,536.05	344,915.39	23,976.06	25,550.36	9,450.94	16,397.25	41,440.81
8,758.01	136,125.49	8,657.68	7,723.16	5,646.19	33,544.53	8,651.66
219.23	13,931.85	....	....	....	31,697.62	....
34,513.29	494,972.73	32,633.74	33,273.52	15,097.13	81,639.40	50,092.47
25,000.00	174,869.92	21,000.00	9,000.00	3,500.00	55,526.87	5,124.00
....	....	....	....	....	....	....
40,732.41	272,789.57	20,099.22	15,943.50	6,688.13	71,872.20	45,249.28
....	....	....	....	....	....	....
65,732.41	447,659.49	41,099.22	24,943.50	10,188.13	127,399.07	50,373.28
101,948.65	961,539.31	80,664.62	60,258.66	25,411.93	324,071.64	105,691.16
2.2	3.1	12.2	5.9	0.8	41.7	8.1

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Campbellville P.V.	Cannington 818	Cardinal 1,711	Carleton Place 4,408	Cayuga 710
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings				13,390.32	
Substation equipment				16,369.37	
Distribution system—overhead	3,219.88	15,489.13	16,294.03	56,057.84	23,087.38
Distribution system—underground					
Line transformers	1,643.46	8,654.27	7,464.78	22,081.35	10,821.91
Meters	1,228.85	6,591.20	5,465.63	25,690.87	6,712.76
Street light equipment, regular	335.61	2,566.75	1,061.30	7,575.16	1,473.48
Street light equipment, ornamental					
Miscellaneous construction expense	6.82	43.50	523.00	682.70	539.32
Steam or hydraulic plant					
Old plant			3,474.80		
Total plant	6,434.62	33,344.85	34,283.54	141,847.61	42,634.85
Bank and cash balance	561.23	3,403.78	519.65	7,471.66	11,504.59
Securities and investments	3,600.00	6,000.00	1,500.00	39,500.00	5,200.00
Accounts receivable	40.34	985.48	205.59	830.83	2,000.71
Inventories		413.85		2,353.32	209.39
Sinking fund on local debentures					
Equity in H-E.P.C. systems	5,304.90	27,198.94	14,533.59	145,879.79	18,779.02
Other assets		580.70			.79
Frequency standardization expenditure in suspense					
Total assets	15,941.09	71,927.60	51,042.37	337,883.21	80,329.35
LIABILITIES					
Debenture balance			1,146.32		
Accounts payable	175.77	867.71	1,223.12	416.51	423.64
Bank overdraft					
Other liabilities		45.00	5.00	1,891.06	200.00
Total liabilities	175.77	912.71	2,374.44	2,307.57	623.64
RESERVES					
For equity in H-E.P.C. systems	5,304.90	27,198.94	14,533.59	145,879.79	18,779.02
For depreciation	2,464.71	14,681.46	3,564.98	27,956.89	11,663.03
Other reserves		76.05	26.65	798.94	149.06
Total reserves	7,769.61	41,956.45	18,125.22	174,635.62	30,591.11
SURPLUS					
Debentures paid	5,447.77	14,532.42	13,853.68	58,116.83	20,000.00
Local sinking fund					
Operating surplus	2,547.94	14,526.02	16,689.03	102,823.19	29,114.60
Net frequency standardization expense charged this year					
Total surplus	7,995.71	29,058.44	30,542.71	160,940.02	49,114.60
Total liabilities, reserves and surplus	15,941.09	71,927.60	51,042.37	337,883.21	80,329.35
Percentage of net debt to total assets	1.7	2.0	6.5	1.2	1.0

"A"—Continued

Hydro Municipalities as at December 31, 1949

Chatham	Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton
20,263	392	1,772	1,241	1,504	436	2,409
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
187,597.06	364.89	6,000.00	3,360.25	1,434.46	....	10,227.74
219,287.18	....	2,305.58	....	....	....	31,125.30
279,715.15	5,998.76	31,303.57	13,772.98	19,721.33	10,415.93	30,105.50
190,803.12	....	....	....	....	....	....
169,320.93	3,988.94	18,017.83	6,374.71	11,470.29	5,384.82	20,030.25
112,649.14	3,203.51	11,577.86	6,972.96	8,269.70	3,308.31	16,056.88
38,338.88	582.77	3,225.37	1,866.40	7,661.43	1,038.17	5,748.22
35,426.10	....	....	....	....	....	....
49,906.84	82.87	424.93	746.83	2,081.99	410.78	4,132.95
....	....	....	....	....	....	....
42,752.31	....	....	....	....	....	....
1,325,796.71	14,221.74	72,855.14	33,094.13	50,639.20	20,558.01	117,426.84
50.00	2,788.12	....	6,671.36	1,637.43	344.19	1,059.26
50,000.00	1,000.00	4,000.00	7,000.00	4,500.00	3,500.00	3,500.00
51,821.53	150.20	576.96	520.31	12.00	39.03	573.68
27,251.90	....	604.13	73.75	312.04	....	5,436.99
....	....	....	....	....	....	....
724,003.50	8,742.53	65,051.70	44,901.17	30,640.44	13,929.81	84,433.15
4,835.00	....	....	....	3.38	17.00	101.90
2,200.00	....	....	....	....	....	960.00
2,185,958.64	26,902.59	143,087.93	92,260.72	87,744.49	38,388.04	213,491.82
196,364.35	....	....	....	....	2,350.59	....
....	285.13	28.80	84.96	498.60	953.58	1,151.43
105,494.55	....	2,848.64	....	....	....	....
44,796.46	52.23	....	33.00	970.00	5.00	1,506.45
346,655.36	337.36	2,877.44	117.96	1,468.60	3,309.17	2,657.88
724,003.50	8,742.53	65,051.70	44,901.17	30,640.44	13,929.81	84,433.15
272,273.73	4,620.37	20,356.61	10,390.10	12,131.70	6,017.27	32,066.15
45,316.10	....	....	....	....	....	448.09
1,041,593.33	13,362.90	85,408.31	55,291.27	42,772.14	19,947.08	116,947.39
373,635.65	5,014.10	24,410.34	5,889.32	13,350.00	5,649.41	44,500.00
....	....	....	....	....	....	....
*424,074.30	8,188.23	30,391.84	30,962.17	30,153.75	9,482.38	*49,386.55
....	....	....	....	....	....	....
797,709.95	13,202.33	54,802.18	36,851.49	43,503.75	15,131.79	93,886.55
2,185,958.64	26,902.59	143,087.93	92,260.72	87,744.49	38,388.04	213,491.82
21.9	1.8	3.7	0.2	2.6	13.5	2.1

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Cobden	Cobourg	Colborne	Coldwater	Collingwood
Population	691	6,459	1,049	645	6,729
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	...	32,227.73	...	275.00	15,950.08
Substation equipment	...	1,668.35	...	...	25,847.23
Distribution system—overhead	7,398.80	126,363.13	14,038.42	11,841.76	79,676.42
Distribution system—underground	...	...	...	...	...
Line transformers	4,174.02	49,106.26	3,730.16	8,211.44	48,751.68
Meters	3,753.79	45,152.04	6,162.88	5,203.25	40,687.80
Street light equipment, regular	637.21	18,418.65	2,629.54	3,310.69	21,680.32
Street light equipment, ornamental	...	...	...	...	...
Miscellaneous construction expense	73.89	8,049.49	4,414.86	268.89	3,787.48
Steam or hydraulic plant	...	...	...	...	...
Old plant	2,853.85	...	...	...	...
Total plant	18,891.56	280,985.65	30,975.86	29,111.03	236,381.01
Bank and cash balance	7,346.27	8,828.34	636.41	11,063.10	1,117.68
Securities and investments	...	45,000.00	5,500.00	3,500.00	15,000.00
Accounts receivable	108.29	9,322.75	4,192.95	1,836.56	2,085.84
Inventories	...	16,222.35	7,620.10	...	...
Sinking fund on local debentures	...	...	...	...	...
Equity in H-E.P.C. systems	5,737.86	109,345.07	11,054.21	25,049.91	247,950.68
Other assets	...	16.48	...	...	4,185.64
Frequency standardization expenditure in suspense	...	...	...	...	...
Total assets	32,083.98	469,720.64	59,979.53	70,560.60	506,720.85
LIABILITIES					
Debenture balance	...	20,826.93	2,133.91	...	...
Accounts payable	871.85	316.16	21.26	841.36	306.60
Bank overdraft	...	...	...	...	...
Other liabilities	127.50	5,318.07	359.00	145.37	4,431.44
Total liabilities	999.35	26,461.16	2,514.17	986.72	4,738.04
RESERVES					
For equity in H-E.P.C. systems	5,737.86	109,345.07	11,054.21	25,049.91	247,950.68
For depreciation	668.52	70,308.18	6,599.91	11,853.82	54,192.90
Other reserves	...	...	...	46.00	150.00
Total reserves	6,406.38	179,653.25	17,654.12	36,949.73	302,293.58
SURPLUS					
Debentures paid	7,803.27	85,166.57	10,060.68	6,867.47	38,183.42
Local sinking fund	...	...	...	...	...
Operating surplus	16,874.98	178,439.66	29,750.56	25,756.68	161,505.81
Net frequency standardization expense charged this year	...	...	...	...	...
Total surplus	24,678.25	263,606.23	39,811.24	32,624.15	199,689.23
Total liabilities, reserves and surplus	32,083.98	469,720.64	59,979.53	70,560.60	506,720.85
Percentage of net debt to total assets	3.8	7.3	5.1	2.2	1.8

"A"—Continued

Hydro Municipalities as at December 31, 1949

Comber P.V.	Cookstown P.V.	Cottam P.V.	Courtright 455	Creemore 750	Dashwood P.V.	Delaware P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
498.22	70.00	475.63	....	....	....	....
....	392.95	....	....	....	....	....
11,413.50	13,314.28	12,324.49	7,612.27	9,222.11	4,208.38	6,328.18
....	....	....	....	....	....	....
9,629.80	4,085.45	4,627.86	2,022.18	6,899.16	4,236.55	1,950.84
4,046.83	3,622.23	3,590.80	1,948.42	4,947.94	2,855.17	1,869.32
857.40	1,543.85	457.02	470.44	358.56	364.52	205.24
....	....	....	....	....	....	....
204.69	42.40	378.50	550.46	....	291.87	203.81
....	....	....	....	....	....	....
....	....	....	....	....	....	....
26,650.44	23,071.16	21,854.30	12,603.77	21,427.77	11,956.49	10,557.39
978.65	218.57	6,254.79	293.36	6,436.42	1,871.88	3,458.28
4,500.00	11,000.00	....	7,000.00	....	5,000.00	2,500.00
450.50	617.44	128.82	140.06	107.73	60.26	386.00
108.67	....	....	....	60.25	....	....
....	....	....	....	....	....	....
30,762.59	10,101.33	8,816.96	10,053.70	20,922.91	15,298.14	6,500.56
....	....	....	....	362.50	....	....
....	....	....	....	....	....	....
63,450.85	45,008.50	37,054.87	30,090.89	49,317.58	34,186.77	23,402.23
....	....	....	....	....	....	....
1,452.75	1,156.30	171.36	497.84	1,081.58	282.34	641.63
....	....	....	....	....	....	....
78.23	54.25	120.71	5.00	168.00	....	5.00
1,530.98	1,210.55	292.07	502.84	1,249.58	282.34	646.63
30,762.59	10,101.33	8,816.96	10,053.70	20,922.91	15,298.14	6,500.56
9,546.52	7,738.83	6,988.81	4,150.93	5,236.55	4,822.14	1,452.01
25.38	....	37.95	5.24	41.00	....	22.53
40,334.49	17,840.16	15,843.72	14,209.87	26,200.46	20,120.28	7,975.10
7,700.00	12,000.85	9,000.22	8,138.35	2,823.61	3,400.00	4,000.00
....	....	....	....	....	....	....
13,885.38	13,956.94	11,918.86	7,239.83	19,043.93	10,384.15	10,780.50
....	....	....	....	....	....	....
21,585.38	25,957.79	20,919.08	15,378.18	21,867.54	13,784.15	14,780.50
63,450.85	45,008.50	37,054.87	30,090.89	49,317.58	34,186.77	23,402.23
4.7	3.5	1.0	2.5	4.4	1.5	3.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population	2,410	1,473	P.V.	575	1,965
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	2,472.54	1,097.41	....	....	1,700.00
Substation equipment	....	161.18	....	....	523.00
Distribution system—overhead	42,060.95	16,890.17	11,581.48	11,286.84	33,157.24
Distribution system—underground	....	....	....	....	....
Line transformers	22,269.67	10,802.03	4,412.36	7,900.22	12,800.60
Meters	20,566.14	7,412.48	3,768.01	4,839.60	14,146.98
Street light equipment, regular	5,810.74	2,483.52	2,624.60	949.03	1,835.15
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	7,046.06	670.11	1,038.08	113.49	4,439.43
Steam or hydraulic plant	....	....	....	....	....
Old plant	28,518.74	....	....	....	....
Total plant	128,744.84	39,516.90	23,424.53	25,089.18	68,602.40
Bank and cash balance	10,226.50	1,420.52	2,283.15	582.29	1,411.52
Securities and investments	18,500.00	6,000.00	6,400.00	4,000.00	8,000.00
Accounts receivable	2,158.26	3,546.43	114.89	175.78	2,932.70
Inventories	10,078.19	6,498.64	279.44	....	5,348.72
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	20,353.70	15,803.54	13,685.95	22,959.36	58,302.49
Other assets	51.90	....	....	15.00	33.25
Frequency standardization expenditure in suspense	....	....	....	....	....
Total assets	190,113.39	72,786.03	46,187.96	52,821.61	144,631.08
LIABILITIES					
Debenture balance	49,091.47	....	....	....	....
Accounts payable	....	654.23	2,053.17	200.69	597.18
Bank overdraft	....	....	....	....	....
Other liabilities	1,942.75	329.89	24.22	25.00	493.70
Total liabilities	51,034.22	984.12	2,077.39	225.69	1,090.88
RESERVES					
For equity in H-E.P.C. systems	20,353.70	15,803.54	13,685.95	22,959.36	58,302.49
For depreciation	19,746.06	3,485.27	6,530.59	8,247.50	5,729.87
Other reserves	97.12	....	....	....	605.34
Total reserves	40,196.88	19,288.81	20,216.54	31,206.86	64,637.70
SURPLUS					
Debentures paid	35,908.53	15,000.00	4,300.00	9,500.00	11,423.24
Local sinking fund	....	....	....	....	....
Operating surplus	62,973.76	37,513.10	19,594.03	11,889.06	67,479.26
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	98,882.29	52,513.10	23,894.03	21,389.06	78,902.50
Total liabilities, reserves and surplus	190,113.39	72,786.03	46,187.96	52,821.61	144,631.08
Percentage of net debt to total assets	30.1	1.7	6.4	0.8	1.3

"A"—Continued

Hydro Municipalities as at December 31, 1949

Drumbo	Dublin	Dundalk	Dundas	Dunnville	Durham	Dutton
P.V.	P.V.	771	6,089	3,997	2,158	818
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	218.00	21,120.00	3,821.21	210.28	75.11
....	....	....	24,500.23	39,710.85	546.02	....
6,431.57	6,659.56	9,038.49	69,323.66	46,468.23	26,196.95	11,287.00
....	....	....	....	....	....	....
4,844.58	3,730.63	7,038.77	37,042.63	37,386.33	20,056.85	8,120.08
3,200.96	1,897.35	4,884.07	37,033.23	29,671.71	11,613.63	4,666.18
483.79	910.63	1,393.25	12,410.65	10,221.81	3,256.66	754.38
....	....	....	1,154.52	....	....	....
....	....	136.00	4,826.25	6,977.53	565.92	319.56
....	....	....	....	....	....	....
....	....	....	....	10,717.62	....	....
14,960.90	13,198.17	22,708.58	207,411.17	184,975.29	62,446.31	25,222.31
960.54	4,867.29	8,045.58	2,245.04	2,753.87	829.08	1,295.26
8,500.00	1,500.00	11,000.00	30,500.00	30,000.00	3,500.00	7,500.00
656.35	157.55	113.50	585.15	175.83	1,554.67	163.14
....	....	....	....	4,250.05	....	....
....	....	....	....	....	....	....
12,129.54	9,657.37	23,456.20	257,801.67	118,690.25	54,036.54	34,558.65
....	....	....	265.53	....	147.38	....
....	....	....	....	....	....	....
37,207.33	29,380.38	65,323.86	498,808.56	340,845.29	122,513.98	68,739.36
....	....	....	....	....	....	....
1,137.21	446.53	8.33	1,384.31	435.49	2,329.37	351.56
....	....	....	3,205.93	....	....	....
90.00	8.00	....	10,849.56	2,353.91	40.00	197.36
1,227.21	454.53	8.33	15,439.80	2,789.40	2,369.37	548.92
12,129.54	9,657.37	23,456.20	257,801.67	118,690.25	54,036.54	34,558.65
7,639.00	7,562.27	8,580.55	85,378.89	51,751.68	16,670.94	11,916.52
....	....	....	134.66	....	....	....
19,768.54	17,219.64	32,036.75	343,315.22	170,441.93	70,707.48	46,475.17
4,500.00	6,200.00	5,727.27	53,000.00	75,500.00	25,323.97	8,407.49
....	....	....	....	....	....	....
11,711.58	5,506.21	27,551.51	87,053.54	92,113.96	24,113.16	13,307.78
....	....	....	....	....	....	....
16,211.58	11,706.21	33,278.78	140,053.54	167,613.96	49,437.13	21,715.27
37,207.33	29,380.38	65,323.86	498,808.56	340,845.29	122,513.98	68,739.36
4.9	2.3	0.0	6.4	1.3	3.5	1.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	East York Twp. V.A.	Elmira 2,330	Elmvale P.V.	Elmwood P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	51,585.42	30,344.21	156.25	1,680.16
Substation equipment	148,922.31	47,546.96	2,273.07	
Distribution system—overhead	592,919.88	52,218.11	13,535.60	5,967.24
Distribution system—underground		540.21		
Line transformers	233,112.74	34,047.95	7,982.25	3,105.49
Meters	266,829.92	21,402.21	6,939.29	2,381.79
Street light equipment, regular	97,538.57	2,859.29	6,009.93	721.69
Street light equipment, ornamental				
Miscellaneous construction expense	30,488.81	1,583.83	64.93	
Steam or hydraulic plant				
Old plant		2,168.08		
Total plant	1,421,397.65	192,710.85	36,961.32	13,856.37
Bank and cash balance	18,875.93	68.90	1,074.67	4,597.28
Securities and investments			1,500.00	3,100.00
Accounts receivable	53,504.65	1,075.02	267.83	137.27
Inventories	19,838.14		37.65	
Sinking fund on local debentures				
Equity in H-E.P.C. systems	584,367.74	138,464.91	25,499.57	7,979.83
Other assets	376.61	290.86		10.41
Frequency standardization expenditure in suspense	9,331.31	2,525.00		
Total assets	2,107,692.03	335,135.54	65,341.04	29,681.16
LIABILITIES				
Debenture balance		1,146.32		
Accounts payable	164,988.07	577.25	486.35	1,485.93
Bank overdraft				
Other liabilities	12,876.85	1,304.05		1,310.00
Total liabilities	177,864.92	3,027.62	486.35	2,795.93
RESERVES				
For equity in H-E.P.C. systems	584,367.74	138,464.91	25,499.57	7,979.83
For depreciation	257,180.12	45,317.38	5,905.18	4,836.25
Other reserves	2,719.94		3.68	
Total reserves	844,267.80	183,782.29	31,408.43	12,816.08
SURPLUS				
Debentures paid	349,763.36	36,022.18	6,544.07	6,106.38
Local sinking fund				
Operating surplus	*735,795.95	*112,303.45	26,902.19	7,962.77
Net frequency standardization expense charged this year				
Total surplus	1,085,559.31	148,325.63	33,446.26	14,069.15
Total liabilities, reserves and surplus	2,107,692.03	335,135.54	65,341.04	29,681.16
Percentage of net debt to total assets	11.7	1.5	1.2	12.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Elora 1,357	Embro 485	Erieau 341	Erie Beach 50	Essex 2,253	Etobicoke Twp. V.A.	Exeter 2,364
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,097.31	....	....	....	11,913.64	42,488.29	9,954.19
....	....	....	....	....	80,099.06	....
20,989.05	11,979.76	21,396.72	4,008.05	56,999.34	681,761.58	45,556.62
....	....	....	....	442.55	....	....
16,057.14	9,790.35	10,389.75	1,207.82	26,365.83	333,093.88	26,653.79
9,232.69	3,314.46	5,252.76	1,368.34	17,425.34	221,752.72	17,322.40
1,568.76	535.73	794.23	306.37	2,552.34	105,221.22	5,149.90
....	....	....	....	7,205.06	2,689.44	....
2,960.14	346.80	379.90	....	4,342.89	81,326.71	5,707.75
....	....	....	....	....	....	....
....	....	....	....	....	....	....
52,905.09	25,967.10	38,213.36	6,890.58	127,246.99	1,548,432.90	110,344.65
418.75	4,544.14	194.21	....	775.23	10,123.98	5,887.08
10,500.00	3,000.00	1,000.00	1,000.00	....	7,000.00	10,500.00
23.00	77.54	182.88	53.93	494.58	35,438.88	1,235.98
249.03	....	....	....	6,506.23	52,325.77	3,427.44
....	....	....	....	....	....	....
64,683.01	19,877.72	13,905.11	3,067.22	59,937.26	502,268.75	78,825.88
60.00	....	1,286.35	....	....	706.40	.50
....	....	....	....	....	6,867.12	....
128,838.88	53,466.50	54,781.91	11,011.73	194,960.29	2,163,163.80	210,221.53
....	....	....	....	6,610.93	538,455.60	....
471.00	1,527.15	725.11	170.19	104.24	140.00	1,365.59
642.31	....	....	205.51	3,321.79	33,423.24	....
363.25	50.00	37.50	127.50	7,930.29	18,963.42	1,530.00
1,476.56	1,577.15	762.61	503.20	17,967.25	590,982.26	2,895.59
64,683.01	19,877.72	13,905.11	3,067.22	59,937.26	502,268.75	78,825.88
20,560.16	8,363.67	5,030.37	786.75	31,552.56	187,216.26	30,684.74
....	9.58	37.41	18.90	438.65	1,151.33	60.16
85,243.17	28,250.97	18,972.89	3,872.87	91,928.47	690,636.34	109,570.78
13,000.00	7,500.00	6,883.13	3,300.00	15,889.07	277,239.80	20,000.05
....	....	....	....	....	....	....
29,119.15	16,138.38	28,163.28	3,335.66	69,175.50	*604,305.40	77,755.11
....	....	....	....	....	....	....
42,119.15	23,638.38	35,046.41	6,635.66	85,064.57	881,545.20	97,755.16
128,838.88	53,466.50	54,781.91	11,011.73	194,960.29	2,163,163.80	210,221.53
2.3	4.7	1.9	5.3	8.7	35.6	2.2

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Fergus	Finch	Flesherton	Fonthill	Forest
Population	3,195	390	447	1,182	1,709
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	2,442.52		408.78		6,576.61
Substation equipment	16,583.00				
Distribution system—overhead	44,431.72	9,166.72	6,221.57	19,375.01	25,101.87
Distribution system—underground					
Line transformers	31,490.42	4,512.42	5,669.67	10,878.35	19,552.75
Meters	21,120.93	3,394.50	3,438.00	9,586.99	13,839.34
Street light equipment, regular	7,485.16	504.07	1,035.23	3,240.30	6,997.07
Street light equipment, ornamental					
Miscellaneous construction expense	2,666.29	110.74	100.38	1,224.03	2,046.40
Steam or hydraulic plant					
Old plant				3,500.00	
Total plant	126,220.04	17,688.45	16,873.63	47,804.68	74,114.04
Bank and cash balance	2,707.02	3,088.00	3,473.18	298.31	3,660.43
Securities and investments	12,000.00	3,500.00	9,000.00		33,510.00
Accounts receivable	701.02	901.63	315.90	316.31	807.07
Inventories	1,066.71				1,490.35
Sinking fund on local debentures					
Equity in H-E.P.C. systems	122,111.62	8,826.76	11,271.22	13,541.12	64,052.42
Other assets			19.30		29.46
Frequency standardization expenditure in suspense					23.85
Total assets	264,806.41	34,004.84	40,953.23	61,960.42	177,687.62
LIABILITIES					
Debenture balance					
Accounts payable	423.34	642.85	335.34	809.77	
Bank overdraft				168.07	
Other liabilities	1,010.94	210.95	69.00	234.30	107.01
Total liabilities	1,434.28	853.80	404.34	1,212.14	107.01
RESERVES					
For equity in H-E.P.C. systems	122,111.62	8,826.76	11,271.22	13,541.12	64,052.42
For depreciation	31,568.78	4,025.71	5,656.73	7,173.43	29,545.25
Other reserves	198.59				85.89
Total reserves	153,878.99	12,852.47	16,927.95	20,714.55	93,683.56
SURPLUS					
Debentures paid	42,000.00	7,000.00	5,830.88	22,500.00	23,357.13
Local sinking fund					
Operating surplus	67,493.14	13,298.57	17,790.06	17,533.73	*60,539.92
Net frequency standardization expense charged this year					
Total surplus	109,493.14	20,298.57	23,620.94	40,033.73	83,897.05
Total liabilities, reserves and surplus	264,806.41	34,004.84	40,953.23	61,960.42	177,687.62
Percentage of net debt to total assets	1.0	3.4	1.3	2.5	0.1

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Forest Hill	Frankford	Galt	Georgetown	Glencoe	Goderich
15,629	1,242	16,952	3,150	918	4,906
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
43,815.63		253,422.97	5,586.06	3,587.66	49,693.84
100,843.12		183,537.58	14,084.11		36,426.76
236,803.16	13,912.64	342,419.79	55,531.46	26,378.34	86,164.11
3,373.65		4,230.40			
137,115.83	4,070.69	178,973.71	43,955.21	12,446.64	43,163.73
84,925.82	5,784.41	123,928.60	28,782.08	6,507.31	34,545.96
14,258.46	2,488.14	87,541.38	5,713.54	6,286.02	10,562.83
25,994.14					
29,458.83		25,846.26	4,093.84	1,954.59	12,555.07
					14,622.15
676,588.64	26,255.88	1,199,900.69	157,746.30	57,160.56	287,734.45
74,643.29	6,278.90	583.93	11,334.09	3,799.21	18,693.63
179,000.00		100,000.00	5,133.15	15,100.00	2,000.00
3,873.42	380.35	6,586.35	214.87	446.52	10,352.98
13,235.67		74,983.94	13,372.58	598.83	2,320.40
385,878.69		1,009,655.08	195,654.49	36,374.77	221,028.71
		35,223.92	189.00	0.28	104.48
312.62		14,610.64			
1,333,532.33	32,915.13	2,441,544.55	383,644.48	113,480.17	542,234.65
148,850.48	20,000.00				7,404.81
27,285.99	1,567.66	4,613.50	287.13	455.72	7,505.55
		10,410.84			
40,543.22	150.00	8,230.98	3,756.55	403.16	4,176.50
216,679.69	21,717.66	23,255.32	4,043.68	858.88	19,086.86
385,878.69		1,009,655.08	195,654.49	36,374.77	221,028.71
196,689.87	8,603.92	501,265.26	42,776.39	18,340.98	115,635.52
750.00	866.66	26,204.54		351.64	819.63
583,318.56	9,470.58	1,537,124.88	238,430.88	55,067.39	337,483.86
213,931.12		518,001.95	20,000.00	20,112.88	88,683.24
*319,602.96	1,726.89	*363,162.40	121,169.92	37,441.02	96,980.69
533,534.08	1,726.89	881,164.35	141,169.92	57,553.90	185,663.93
1,333,532.33	32,915.13	2,441,544.55	383,644.48	113,480.17	542,234.65
20.7	65.9	1.6	2.2	0.8	5.9

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Grand Valley	Granton	Gravenhurst	Grimsby
Population	649	P.V.	3,431	2,457
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	36.50	....	15,684.91	....
Substation equipment	....	....	10,936.03	....
Distribution system—overhead	13,788.55	6,604.57	45,440.73	47,312.19
Distribution system—underground	....	....	1,941.77	....
Line transformers	5,981.47	2,647.77	21,341.80	27,601.43
Meters	5,546.10	2,156.00	22,622.47	21,882.88
Street light equipment, regular	1,067.12	180.78	5,995.99	4,552.17
Street light equipment, ornamental	....	....	....	....
Miscellaneous construction expense	9.00	113.08	1,497.45	....
Steam or hydraulic plant	....	....	....	....
Old plant	....	....	....	....
Total plant	26,428.74	11,702.20	125,461.15	101,348.67
Bank and cash balance	3,248.77	....	227.14	1,492.16
Securities and investments	11,000.00	3,700.00	15,000.00	36,000.00
Accounts receivable	261.77	44.52	2,140.28	110.38
Inventories	....	....	1,201.79	91.55
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	21,606.82	13,566.38	64,618.86	17,021.78
Other assets	....	....	5.00	....
Frequency standardization expenditure in suspense	....	....	....	....
Total assets	62,546.10	29,013.10	208,654.22	156,064.54
LIABILITIES				
Debenture balance	....	....	....	....
Accounts payable	1,215.97	2,588.80	10.74	157.56
Bank overdraft	....	152.98	....	....
Other liabilities	....	35.00	1,280.00	3,560.29
Total liabilities	1,215.97	2,776.78	1,290.74	3,717.85
RESERVES				
For equity in H-E.P.C. systems	21,606.82	13,566.38	64,618.86	17,021.78
For depreciation	13,514.03	2,266.34	31,877.21	17,181.50
Other reserves	....	60.00	472.91	....
Total reserves	35,120.85	15,892.72	96,968.98	34,203.28
SURPLUS				
Debentures paid	10,794.30	3,500.00	44,278.97	85,344.00
Local sinking fund	....	....	....	....
Operating surplus	15,414.98	6,843.60	66,115.53	32,799.41
Net frequency standardization expense charged this year	....	....	....	....
Total surplus	26,209.28	10,343.60	110,394.50	118,143.41
Total liabilities, reserves and surplus	62,546.10	29,013.10	208,654.22	156,064.54
Percentage of net debt to total assets	3.0	17.9	0.9	1.3

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Guelph	Hagersville	Hamilton	Hanover	Harriston	Harrow	Hastings
25,962	1,624	181,623	3,646	1,449	1,343	803
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
22,350.87	....	1,283,361.91	3,974.32	395.25	2,318.16	....
198,776.44	864.37	3,026,912.68	9,271.19	600.00	....	....
403,890.82	24,962.86	1,629,506.52	60,190.32	27,775.84	28,609.39	23,510.43
28,847.47	....	1,103,305.29	....	....	....	....
189,921.85	19,074.27	1,333,695.84	36,999.89	15,284.55	17,076.86	5,810.11
155,183.55	13,594.54	1,073,869.05	25,651.79	11,030.05	12,366.94	6,443.84
15,885.71	1,311.22	367,795.75	5,269.63	1,355.93	1,218.24	1,399.21
....	....	....	....	....	....	....
7,827.86	904.84	61,954.65	5,917.61	2,499.87	52.13	669.85
....	....	....	....	....	....	....
....	....	†250,823.00	....	....	....	1,733.13
1,058,684.57	60,712.10	10,131,224.69	147,274.75	58,941.49	61,641.72	39,566.57
60,847.02	5,535.72	411,471.90	16,618.06	3,908.89	6,021.83	2,484.84
....	33,000.00	1,950,000.00	83,437.19	10,900.00	9,200.00	6,000.00
25,419.20	500.38	423,240.09	922.89	918.88	1,614.46	296.63
44,476.42	155.44	397,178.53	646.53	41.66	337.34	....
....	....	....	....	....	....	....
1,185,576.84	132,219.83	10,476,227.12	144,826.38	61,608.87	51,427.51	8,439.92
80.00	....	126,346.25	....	44.00	....	....
1,711.70	....	13,851.00	....	....	....	....
2,376,795.75	232,123.47	23,929,539.58	393,725.80	136,363.79	130,242.86	56,787.96
100,000.00	....	76,000.00	....	....	....	3,244.48
49,071.05	7.55	967,928.48	....	521.17	1,396.67	3,486.43
....	....	....	....	....	....	....
8,890.15	634.43	37,924.49	1,342.40	112.21	450.00	535.47
157,961.20	641.98	1,081,852.97	1,342.40	633.38	1,846.67	7,266.38
1,185,576.84	132,219.83	10,476,227.12	144,826.38	61,608.87	51,427.51	8,439.92
314,920.26	24,159.26	2,505,406.81	82,371.28	16,986.86	19,861.49	9,199.27
777.26	....	1,482,148.07	....	....	130.17	....
1,501,274.36	156,379.09	14,463,782.00	227,197.66	78,595.73	71,419.17	17,639.19
145,000.00	8,000.00	3,984,275.19	80,162.29	25,818.03	12,000.00	17,755.52
....	....	....	....	....	....	....
*572,560.19	67,102.40	*4,401,532.05	85,023.45	31,316.65	44,977.02	14,126.87
....	....	*1,902.63*	....	....	....	....
717,560.19	75,102.40	8,383,904.61	165,185.74	57,134.68	56,977.02	31,882.39
2,376,795.75	232,123.47	23,929,539.58	393,725.80	136,363.79	130,242.86	56,787.96
13.3	0.6	8.0	0.5	0.8	2.4	15.0

†Annexation not yet distributed.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Havelock	Hensall	Hespeler	Highgate	Holstein
Population	1,166	677	3,614	340	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings			17,571.77		
Substation equipment	572.90		62,110.62		
Distribution system—overhead	21,473.90	14,764.44	46,925.16	9,750.71	2,569.46
Distribution system—underground					
Line transformers	4,755.07	12,898.76	45,106.78	3,520.29	2,053.41
Meters	7,494.63	5,724.32	20,095.24	2,213.27	1,163.99
Street light equipment, regular	1,960.83	3,556.77	13,938.82	3,090.72	215.54
Street light equipment, ornamental					
Miscellaneous construction expense		752.70	5,283.38		64.35
Steam or hydraulic plant					
Old plant					
Total plant	36,257.33	37,696.99	211,031.77	18,574.99	6,066.75
Bank and cash balance	5,082.11	2,466.78			2,149.15
Securities and investments	16,500.00	10,000.00	10,000.00	6,000.00	4,500.00
Accounts receivable	329.59	181.41	16,503.16	75.93	22.50
Inventories			581.75		
Sinking fund on local debentures					
Equity in H-E.P.C. systems	21,557.28	30,270.83	223,132.23	16,447.95	4,655.93
Other assets			678.47		
Frequency standardization expenditure in suspense			2,305.00		
Total assets	79,726.31	80,616.01	464,232.38	41,098.87	17,394.33
LIABILITIES					
Debenture balance			1,910.54		
Accounts payable	1,214.63	202.19	835.58	2,115.33	500.00
Bank overdraft			10,241.13	551.23	
Other liabilities	80.00	20.00	1,725.00	75.00	50.00
Total liabilities	1,294.63	222.19	14,712.25	2,741.56	550.00
RESERVES					
For equity in H-E.P.C. systems	21,557.28	30,270.83	223,132.23	16,447.95	4,655.93
For depreciation	15,825.12	14,095.66	23,189.08	7,432.28	2,189.50
Other reserves			125.13		
Total reserves	37,382.40	44,366.49	246,446.44	23,880.23	6,845.43
SURPLUS					
Debentures paid	26,234.18	12,000.00	75,659.97	5,000.00	2,762.05
Local sinking fund					
Operating surplus	14,815.10	24,027.33	*127,413.72	9,477.08	7,236.85
Net frequency standardization expense charged this year					
Total surplus	41,049.28	36,027.33	203,073.69	14,477.08	9,998.90
Total liabilities, reserves and surplus	79,726.31	80,616.01	464,232.38	41,098.87	17,394.33
Percentage of net debt to total assets	2.2	0.4	6.1	11.1	4.3

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Humberstone	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville
3,411	3,180	6,234	1,029	588	1,465
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
26,809.12	353.52	16,650.86	281.20	....	4,719.34
....	647.30	51,338.29	100.00	....	....
35,787.75	32,961.66	73,873.63	11,516.15	12,330.31	26,435.89
....	....	....	....	....	....
22,019.91	30,270.66	57,677.22	4,394.13	6,889.02	14,487.78
16,679.06	23,083.99	42,655.85	6,102.44	3,924.79	12,318.94
1,715.26	9,919.39	6,005.71	2,637.65	977.33	1,173.70
....	....	4,597.59	....	....	....
4,141.25	1,254.60	10,206.62	454.23	175.68	574.10
....	....	....	....	....	....
....	....	....	575.00	....	....
107,152.35	98,491.12	263,005.77	26,060.80	24,297.13	59,709.75
1,134.28	....	2,696.04	1,584.43	6,183.21	25.00
....	7,000.00	....	8,000.00	13,500.00	12,000.00
333.15	1,133.99	2,427.20	....	1,038.30	2,724.57
854.35	7,259.83	1,448.22	1,081.07	....	2,590.87
....	....	....	....	....	....
42,288.96	111,477.07	332,086.68	5,881.53	27,129.53	38,102.95
233.34	845.15	224.92	....	....	....
....	....	155.00	....	....	....
151,996.43	226,207.16	602,043.83	42,607.83	72,148.17	115,153.14
....	....	....	....	....	....
3,503.81	156.46	16,488.77	468.73	3,234.86	654.20
....	230.81	....	....	....	274.74
1,449.80	872.16	7,256.94	446.60	....	216.69
4,953.61	1,259.43	23,745.71	915.33	3,234.86	1,145.63
42,288.96	111,477.07	332,086.68	5,881.53	27,129.53	38,102.95
12,792.74	19,973.49	39,850.42	4,205.97	5,257.97	14,847.82
....	123.42	311.22	....	....	....
55,081.70	131,573.98	372,248.32	10,087.50	32,387.50	52,950.77
32,000.00	15,697.39	79,800.00	....	10,500.00	19,506.62
....	....	....	....	....	....
59,961.12	77,676.36	*126,249.80	31,605.00	26,025.81	41,550.12
....	....	....	....	....	....
91,961.12	93,373.75	206,049.80	31,605.00	36,525.81	61,056.74
151,996.43	226,207.16	602,043.83	42,607.83	72,148.17	115,153.14
4.5	1.1	7.0	2.5	7.2	1.5

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Kincardine	Kingston	Kingsville	Kirkfield
Population	2,857	31,375	2,489	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	6,740.17	329,882.41	8,730.87	
Substation equipment	7,512.39	340,528.54		
Distribution system—overhead	61,458.28	331,563.03	42,592.22	5,616.28
Distribution system—underground		337,055.47		
Line transformers	26,787.67	192,079.44	19,384.67	1,854.10
Meters	18,583.01	196,962.58	20,212.08	977.15
Street light equipment, regular	10,132.87	91,615.36	2,046.73	379.00
Street light equipment, ornamental			19,200.00	
Miscellaneous construction expense	987.14	22,937.45	804.93	
Steam or hydraulic plant		17,665.40		
Old plant				
Total plant	132,201.53	1,860,289.68	112,971.50	8,826.53
Bank and cash balance	10,285.71	53,530.10	1,709.49	2,141.15
Securities and investments	15,000.00	335,000.00	32,500.00	3,000.00
Accounts receivable	719.50	56,049.11	523.49	35.17
Inventories		45,215.85		
Sinking fund on local debentures				
Equity in H-E.P.C. systems	80,468.90	365,160.03	75,605.75	5,556.00
Other assets	316.94	3,420.54		
Frequency standardization expenditure in suspense				
Total assets	238,992.58	2,718,665.31	223,310.23	19,558.85
LIABILITIES				
Debenture balance			10,251.81	
Accounts payable	1,350.23	136,063.64	641.75	240.56
Bank overdraft				
Other liabilities	639.81	13,599.85	21,724.75	
Total liabilities	1,990.04	149,663.49	32,618.31	240.56
RESERVES				
For equity in H-E.P.C. systems	80,468.90	365,160.03	75,605.75	5,556.00
For depreciation	29,338.38	508,643.76	35,194.97	4,913.05
Other reserves	42.64	250,000.00	388.66	200.00
Total reserves	109,849.92	1,123,803.79	111,189.38	10,669.05
SURPLUS				
Debentures paid	60,000.00	274,339.08	23,248.19	5,765.89
Local sinking fund				
Operating surplus	67,152.62	1,170,858.95	56,254.35	2,883.35
Net frequency standardization expense charged this year				
Total surplus	127,152.62	1,445,198.03	79,502.54	8,649.24
Total liabilities, reserves and surplus	238,992.58	2,718,665.31	223,310.23	19,558.85
Percentage of net debt to total assets	1.3	6.3	1.0	1.7

"A"—Continued

Hydro Municipalities as at December 31, 1949

Kitchener 40,640	Lakefield 1,667	Lambeth P.V.	Lanark 731	Lancaster 550	La Salle 1,526	Leamington 7,221
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
329,330.54	3,137.97	....	....	....	1,210.68	36,105.25
619,327.06	....	....	....	....	....	8,288.84
643,388.31	29,011.21	15,648.60	12,626.57	8,833.04	38,983.93	85,723.08
202,403.89	....	....	....	....	....	36,570.18
378,117.94	13,563.32	4,778.87	7,392.12	2,227.75	13,127.60	46,871.24
265,834.92	10,833.28	4,808.40	4,609.81	2,540.07	10,617.81	44,445.68
88,148.63	3,064.86	1,053.80	1,442.75	650.65	1,807.17	3,960.65
118,465.71	....	....	....	....	....	14,478.49
55,581.56	5,368.34	300.71	....	14.95	1,033.07	2,489.01
....	....	....	....	....	....	....
52,363.91	3,445.25	....	....	....	....	....
2,752,962.47	68,424.23	26,590.38	26,071.25	14,266.46	66,780.26	278,932.42
175.00	6,604.69	521.35	5,846.74	3,670.21	....	100.00
....	25,000.00	....	....	1,500.00	....	7,000.00
98,606.45	306.72	869.10	....	564.67	961.07	2,383.97
115,837.87	1,591.80	....	....	....	136.10	7,193.56
....	....	....	....	....	....	....
2,406,981.23	26,404.16	17,498.79	11,852.80	10,309.02	27,529.48	174,505.10
1,660.64	....	....	....	....	6.49	0.29
....	....	....	....	....	....	....
5,376,223.66	128,331.60	45,479.62	43,770.79	30,310.36	95,413.40	470,115.34
25,600.00	2,408.79	....	....	....	....	....
116,269.90	222.00	5,249.35	127.49	360.94	15,586.74	585.64
92,168.78	....	....	....	....	359.94	4,564.89
130,341.52	534.53	145.00	130.00	142.86	971.74	18,216.73
364,380.20	3,165.32	5,394.35	257.49	503.80	16,918.42	23,367.26
2,406,981.23	26,404.16	17,498.79	11,852.80	10,309.02	27,529.48	174,505.10
568,092.29	20,851.74	7,374.22	2,572.44	5,037.95	14,326.29	60,980.08
6,402.69	....	16.85	....	....	164.06	53.86
2,931,476.21	47,255.90	24,889.86	14,425.24	15,346.97	42,019.83	235,539.04
711,550.00	31,091.21	4,000.00	7,316.57	8,916.82	15,500.00	48,000.00
....	....	....	....	....	....	....
1,318,817.25	46,819.17	11,195.41	21,771.49	5,542.77	20,975.15	163,209.04
....	....	....	....	....	....	....
2,030,367.25	77,910.38	15,195.41	29,088.06	14,459.59	36,475.15	211,209.04
5,376,223.66	128,331.60	45,479.62	43,770.79	30.310.36	95,413.40	470,115.34
12.3	3.1	19.3	0.8	2.5	24.9	3.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Lindsay	Listowel	London	London Twp.	Long Branch
Population	8,904	2,929	91,021	10,179	6,677
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	20,600.15	1,459.49	522,294.65	....	....
Substation equipment	3,176.56	....	1,352,680.72	....	....
Distribution system—overhead	145,037.25	65,851.06	953,464.41	31,482.73	84,140.12
Distribution system—underground	22,438.41	7,030.38	748,692.59	....	
Line transformers	64,930.00	36,861.97	680,009.16	14,191.04	43,524.09
Meters	61,798.28	25,391.01	489,129.02	10,314.55	38,366.78
Street light equipment, regular	15,252.68	5,325.16	101,144.90	1,999.16	18,469.91
Street light equipment, ornamental	....	1,539.79	92,286.12	....	....
Miscellaneous construction expense	6,199.86	2,992.97	295,731.02	914.36	37.15
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	339,433.19	146,451.83	5,235,432.59	58,901.84	184,538.05
Bank and cash balance	7,715.77	5,560.05	9,168.91	3,298.65	1,542.07
Securities and investments	15,000.00	5,000.00	806,500.00	6,000.00	55,000.00
Accounts receivable	1,272.21	596.56	166.767.79	333.23	13,790.30
Inventories	12,334.44	618.55	273,927.83	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	208,305.39	146,930.30	4,307,003.79	41,915.43	67,940.17
Other assets	....	195.58	188,775.40	....	....
Frequency standardization expenditure in suspense	....	....	17,156.37	....	....
Total assets	584,061.00	305,352.87	11,004,732.68	110,449.15	322,810.59
LIABILITIES					
Debenture balance	....	....	....	....	....
Accounts payable	....	1,670.92	98,485.81	1,375.45	4,390.39
Bank overdraft	....	....	201,161.59	....	....
Other liabilities	6,463.67	2,604.32	108,365.18	429.00	3,542.07
Total liabilities	6,463.67	4,275.24	408,012.58	1,804.45	7,932.46
RESERVES					
For equity in H-E.P.C. systems	208,305.39	146,930.30	4,307,003.79	41,915.43	67,940.17
For depreciation	66,640.98	67,173.39	2,053,504.28	17,879.27	33,038.27
Other reserves	....	....	203,328.69	3.82	94.24
Total reserves	274,946.37	214,103.69	6,563,836.76	59,798.52	101,072.68
SURPLUS					
Debentures paid	129,313.04	43,189.89	1,727,524.06	19,000.00	40,304.60
Local sinking fund	....	....	....	....	....
Operating surplus	173,337.92	43,784.05	*2,305,359.28	29,846.18	173,500.85
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	302,650.96	86,973.94	4,032,883.34	48,846.18	213,805.45
Total liabilities, reserves and surplus	584,061.00	305,352.87	11,004,732.68	110,449.15	322,810.59
Percentage of net debt to total assets	1.7	1.7	4.8	2.6	3.1

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Lucan 850	Lucknow 963	Lynden P.V.	Madoc 1,169	Markdale 839	Markham 1,389	Marmora 1,005
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
375.45	....	241.18	100.00	....	....	....
....	....	....	....	780.80	....	....
16,185.34	22,067.14	6,974.37	24,820.35	16,116.12	26,399.35	15,452.13
....	....	....	....	....	....	....
8,120.18	15,732.98	5,068.68	8,433.47	10,342.37	18,309.41	6,037.36
5,962.05	7,780.37	3,216.10	8,054.38	7,444.35	10,795.96	5,148.76
5,034.81	3,492.45	636.01	1,577.14	4,205.81	1,160.91	1,294.35
....	....	....	....	....	....	....
2,140.40	1,057.87	....	203.63	....	1,624.62	305.83
....	....	....	....	....	....	....
....	....	....	....	....	....	....
37,818.23	50,130.81	16,136.34	43,188.97	38,889.45	58,290.25	28,238.43
1,821.96	1,760.91	670.43	3,200.19	1,140.90	5,629.12	2,925.02
5,500.00	22,000.00	4,000.00	3,000.00	1,255.13	16,000.00	8,000.00
330.91	525.79	70.90	655.10	149.97	296.06	142.13
....	....	....	2,879.75	....	3,413.53	1,318.39
....	....	....	....	....	....	....
31,186.35	38,682.70	21,526.92	16,559.47	18,887.12	36,467.77	11,319.82
....	....	....	....	....	....	....
....	....	....	....	....	....	....
76,657.45	113,100.21	42,404.59	69,483.48	60,322.57	120,096.73	51,943.79
....	....	....	....	....	....	....
2,548.05	310.49	1,629.17	6,556.46	1,856.87	....	71.35
....	....	....	....	....	....	....
664.00	....	23.32	467.84	362.00	160.00	220.00
3,212.05	310.49	1,652.49	7,024.30	2,218.87	160.00	291.35
31,186.35	38,682.70	21,526.92	16,559.47	18,887.12	36,467.77	11,319.82
10,714.20	3,656.27	4,836.90	1,039.56	3,454.47	11,705.96	7,388.96
....	500.00	....	....	....	....	....
41,900.55	42,838.97	26,363.82	17,599.03	22,341.59	48,173.73	18,708.78
11,213.62	17,614.08	4,495.00	14,000.00	6,370.29	11,373.63	15,091.58
....	....	....	....	....	....	....
20,331.23	52,336.67	9,893.28	30,860.15	29,391.82	60,389.37	17,852.08
....	....	....	....	....	....	....
31,544.85	69,950.75	14,388.28	44,860.15	35,762.11	71,763.00	32,943.66
76,657.45	113,100.21	42,404.59	69,483.48	60,322.57	120,096.73	51,943.79
7.1	0.4	7.9	13.3	5.5	0.2	0.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Martintown	Maxville	Meaford	Merlin	Merritton
Population	P.V.	812	2,923	P.V.	3,868
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	126.15		1,144.18	17,768.93	32,488.69
Substation equipment		407.79	4,093.47		84,995.94
Distribution system—overhead	2,932.57	12,494.94	44,877.90	11,425.27	66,047.84
Distribution system—underground					
Line transformers	1,593.81	3,726.44	19,415.22	4,364.88	30,139.08
Meters	1,451.14	3,889.99	20,962.56	4,038.87	25,397.81
Street light equipment, regular	585.67	2,160.10	4,436.10	1,051.48	7,880.11
Street light equipment, ornamental					
Miscellaneous construction expense	36.94	20.89	1,804.54	267.20	2,277.86
Steam or hydraulic plant					
Old plant					
Total plant	6,726.28	22,700.15	96,733.97	38,916.63	249,227.33
Bank and cash balance	2,380.27	7,443.51	8,947.76	367.63	35,474.21
Securities and investments	2,500.00	4,000.00	35,000.00		72,000.00
Accounts receivable	334.96	337.36	429.41	862.32	544.12
Inventories			256.69	486.76	2,289.35
Sinking fund on local debentures					
Equity in H-E.P.C. systems	3,913.35	16,748.06	60,614.51	19,305.82	394,700.76
Other assets			1,193.69		1.00
Frequency standardization expenditure in suspense					
Total assets	15,854.85	51,229.08	203,176.03	59,939.16	754,236.77
Liabilities					
Debenture balance					
Accounts payable	235.09	1,110.31	1,078.01	1,869.73	3,784.01
Bank overdraft					
Other liabilities	5.00	144.89	1,289.08	105.00	1,296.59
Total liabilities	240.09	1,255.20	2,367.09	1,974.73	5,080.60
Reserves					
For equity in H-E.P.C. systems	3,913.35	16,748.06	60,614.51	19,305.82	394,700.76
For depreciation	1,988.33	7,777.76	23,307.27	7,636.00	54,399.14
Other reserves	81.02	327.62	35.59	23.40	
Total reserves	5,982.70	24,853.44	83,957.37	26,965.22	449,099.90
Surplus					
Debentures paid	5,346.73	13,642.40	47,724.76	13,122.36	32,186.21
Local sinking fund					
Operating surplus	4,285.33	11.478.04	69,126.81	17,876.85	267,870.06
Net frequency standardization expense charged this year					
Total surplus	9,632.06	25,120.44	116,851.57	30,999.21	300,056.27
Total liabilities, reserves and surplus	15,854.85	51,229.08	203,176.03	59,939.16	754,236.77
Percentage of net debt to total assets	2.0	3.6	1.7	4.9	1.4

"A"—Continued

Hydro Municipalities as at December 31, 1949

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell
7,078	804	771	2,316	1,060	10,164	1,799
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
20,284.73			16,954.68	761.88	103,202.55	20,885.50
89,506.42			61,304.20		65,998.08	18,105.99
108,990.00	9,609.90	9,861.36	36,929.22	15,844.15	103,213.47	36,124.36
42,510.77	12,897.10	4,508.30	22,490.48	14,332.65	58,661.84	22,896.16
55,185.79	4,564.56	3,366.43	21,464.17	7,915.88	46,651.73	18,879.50
21,601.95	651.29	1,740.29	6,646.59	910.47	13,429.16	7,670.42
11,486.04	962.25		4,332.07	1,134.03	5,619.74	5,503.98
	849.00					1,380.00
349,565.70	29,534.10	19,476.38	170,121.41	40,899.06	396,776.57	131,445.91
	810.52	7,033.99	242.97	0.55	882.36	1,099.84
166,000.00	3,500.00	4,000.00		4,000.00		21,000.00
17,944.62	87.35	59.19	1,015.42	360.20	1,715.68	6,743.13
21,132.35			6,586.27		1,754.16	8,991.16
390,038.52	8,447.00	3,599.09	174,661.63	70,726.94	255,688.05	80,532.80
6,813.27			2.57		814.09	143.85
951,494.46	42,378.97	34,168.65	352,630.27	115,986.75	657,630.91	249,956.69
	2,989.06					
749.00		906.20	216.39	300.62	10,115.97	538.40
1,304.23				2,168.78	502.57	
1,707.47	523.43	149.04	607.13		5,711.00	258.00
3,760.70	3,512.49	1,055.24	823.52	2,469.40	16,329.54	796.40
390,038.52	8,447.00	3,599.09	174,661.63	70,726.94	255,688.05	80,532.80
254,778.54	1,442.15	1,550.71	40,188.66	8,809.32	110,289.08	49,194.25
1,298.25			146.00		542.87	1,288.52
646,115.31	9,889.15	5,149.80	214,996.29	79,536.26	366,520.00	130,955.57
111,944.99	9,314.44	9,000.00	33,046.41	9,500.00	127,000.00	22,295.22
189,673.46	19,662.89	18,963.61	103,764.05	24,481.09	147,781.37	95,909.50
301,618.45	28,977.33	27,963.61	136,810.46	33,981.09	274,781.37	118,204.72
951,494.46	42,378.97	34,168.65	352,630.27	115,986.75	657,630.91	249,956.69
0.7	10.3	3.4	0.5	5.5	4.1	0.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Moorefield P.V.	Morrisburg 1,825	Mount Brydges P.V.	Mount Forest 1,928	Napanee 3,554
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	5,682.38	....	3,726.00	24,141.33
Substation equipment	....	4,499.48	....	686.75	2,358.27
Distribution system—overhead	4,629.94	16,908.05	10,799.32	25,682.00	63,401.24
Distribution system—underground	....	....	....	....	....
Line transformers	3,003.69	10,617.72	2,505.18	13,714.18	24,233.71
Meters	2,108.85	11,017.13	3,718.99	13,330.88	27,323.28
Street light equipment, regular	295.88	7,059.38	1,501.20	2,521.80	6,237.88
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	78.79	675.00	105.90	208.16	9,314.54
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	10,117.15	56,459.14	18,630.59	59,869.77	157,010.25
Bank and cash balance	3,285.61	6,304.01	4,012.27	15,044.84	....
Securities and investments	500.00	8,000.00	13,000.00	9,000.00	12,800.00
Accounts receivable	56.97	4,142.75	1,014.45	969.23	38,067.86
Inventories	....	254.26	....	....	8,128.85
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	11,064.30	8,913.62	13,488.41	61,513.25	85,071.79
Other assets	....	....	....	111.58	1,873.46
Frequency standardization expenditure in suspense	....	....	....	....	....
Total assets	25,024.03	84,073.78	50,145.72	146,508.67	302,952.21
LIABILITIES					
Debenture balance	....	....	....	....	....
Accounts payable	235.83	652.60	1,343.73	600.46	368.37
Bank overdraft	....	....	....	....	26,269.39
Other liabilities	5.22	2,225.33	140.10	165.00	1,755.23
Total liabilities	241.05	2,877.93	1,483.83	765.46	28,392.99
RESERVES					
For equity in H-E.P.C. systems	11,064.30	8,913.62	13,488.41	61,513.25	85,071.79
For depreciation	3,622.65	4,162.21	7,062.83	25,291.88	24,969.64
Other reserves	....	....	97.38	....	....
Total reserves	14,686.95	13,075.83	20,648.62	86,805.13	110,041.43
SURPLUS					
Debentures paid	4,500.00	31,636.00	4,220.00	25 351.63	70,000.00
Local sinking fund	....	....	....	....	....
Operating surplus	5,596.03	36,484.02	23,793.27	33,586.45	94,517.79
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	10,096.03	68,120.02	28,013.27	58,938.08	164,517.79
Total liabilities, reserves and surplus	25,024.03	84,073.78	50,145.72	146,508.67	302,952.21
Percentage of net debt to total assets	1.7	3.8	4.0	0.9	13.1

"A"—Continued

Hydro Municipalities as at December 31, 1949

Neustadt 444	Newboro 332	Newburg 500	Newbury 292	Newcastle 782	New Hamburg 1,602
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	....	....	107.37	4,203.21
....	....	....	....	....	1,319.80
11,747.70	11,113.68	15,643.41	7,816.80	17,236.99	25,760.88
....	....	....	....	....	....
6,532.89	3,031.04	4,544.68	2,966.14	8,752.44	19,321.35
3,304.87	2,365.61	3,147.34	2,009.92	5,580.85	13,496.38
934.04	1,003.39	848.32	894.16	2,076.56	2,274.20
....	....	....	....	....	....
246.10	1,350.77	127.16	....	738.30	2,554.84
....	....	....	....	....	....
....	....	....	....	....	....
22,765.60	18,864.49	24,310.91	13,687.02	34,492.51	68,930.66
4,507.29	1,297.32	1,157.33	1,296.88	3,411.58	50.00
12,700.00	....	....	6,500.00	9,000.00	11,000.00
149.17	28.42	51.58	553.36	208.64	728.95
....	....	....	....	....	917.13
....	....	....	....	....	....
10,271.09	....	....	7,504.38	7,063.96	84,912.09
....	....	....	....	....	35.28
....	....	....	....	....	....
50,393.15	20,190.23	25,519.82	29,541.64	54,176.69	166,574.11
....	17,000.00	10,000.00	....	....	....
323.05	41.06	4,353.35	224.90	....	116.10
....	....	....	....	....	426.95
213.85	92.00	5.00	57.84	....	156.34
536.90	17,133.06	14,358.35	282.74	....	699.39
10,271.09	....	....	7,504.38	7,063.96	84,912.09
11,486.36	351.00	10,808.61	7,180.66	12,498.93	19,937.86
....	1,142.67	525.00	....	....	33.83
21,757.45	1,493.67	11,333.61	14,685.04	19,562.89	104,883.78
15,504.12	....	....	9,754.39	14,000.00	17,729.08
....	....	....	....	....	....
12,594.68	1,563.50	†172.14	4,819.47	20,613.80	43,261.86
....	....	....	....	....	....
28,098.80	1,563.50	†172.14	14,573.86	34,613.80	60,990.94
50,393.15	20,190.23	25,519.82	29,541.64	54,176.69	166,574.11
1.3	84.9	56.3	1.3	0.0	0.9

† Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Newmarket	New Toronto	Niagara	Niagara Falls
Population	4,521	9,156	1,727	21,674
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	4,000.00	63,962.39	4,457.03	132,871.35
Substation equipment	5,000.00	....	24,212.17	295,505.18
Distribution system—overhead	72,248.56	116,849.34	49,720.47	274,569.05
Distribution system—underground	....	17,198.72	....	16,452.02
Line transformers	47,164.52	81,424.51	28,322.30	233,705.25
Meters	33,887.83	54,066.86	18,843.80	152,658.48
Street light equipment, regular	10,061.79	15,155.55	4,964.24	141,729.18
Street light equipment, ornamental	....	....	....	....
Miscellaneous construction expense	6,932.55	11,715.37	4,170.09	55,729.57
Steam or hydraulic plant	....	....	....	....
Old plant	....	....	....	....
Total plant	179,295.25	360,372.74	134,690.10	1,303,220.08
Bank and cash balance	25.00	3,175.02	2,021.22	14,590.54
Securities and investments	....	130,000.00	5,000.00	185,000.00
Accounts receivable	1,141.25	3,467.67	5,041.12	1,410.47
Inventories	174.82	9,119.63	8,357.81	35,697.40
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	19,311.70	872,094.06	59,752.15	966,234.47
Other assets	....	....	....	1,320.43
Frequency standardization expenditure in suspense	....	....	....	....
Total assets	199,948.02	1,378,229.12	214,862.40	2,507,473.39
LIABILITIES				
Debenture balance	1,000.00	....	6,000.00	5,731.61
Accounts payable	3,918.31	....	2,700.81	14,910.40
Bank overdraft	4,589.40	....	....	....
Other liabilities	1,180.00	6,774.34	759.65	24,447.07
Total liabilities	10,687.71	6,774.34	9,460.46	45,089.08
RESERVES				
For equity in H-E.P.C. systems	19,311.70	872,094.06	59,752.15	966,234.47
For depreciation	45,893.43	103,319.97	30,011.03	404,925.58
Other reserves	....	340.73	591.60	1,380.86
Total reserves	65,205.13	975,754.76	90,354.78	1,372,540.91
SURPLUS				
Debentures paid	4,000.00	8,000.00	42,501.42	684,511.39
Local sinking fund	....	....	....	....
Operating surplus	120,055.18	387,700.02	72,545.74	405,332.01
Net frequency standardization expense charged this year	....	....	....	....
Total surplus	124,055.18	395,700.02	115,047.16	1,089,843.40
Total liabilities, reserves and surplus	199,948.02	1,378,229.12	214,862.40	2,507,473.39
Percentage of net debt to total assets	5.9	1.3	6.1	2.9

"A"—Continued

Hydro Municipalities as at December 31, 1949

North York Twp. V.A.	Norwich 1,369	Norwood 873	Oakville 5,346	Oil Springs 426	Omemee 611	Orangeville 3,073
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
96,371.10	4,660.42	....	750.00	6,457.31	200.00	2,585.07
126,243.23	....	457.53	5,000.00	2,461.78	....	....
1,069,816.48	12,205.73	25,891.89	91,763.29	16,472.13	20,979.06	44,347.11
....	....	....	....	....	....	....
527,838.22	11,442.50	6,759.86	50,092.99	9,724.51	9,100.24	21,775.36
304,229.63	11,043.55	8,288.94	50,398.96	5,037.12	4,521.86	19,352.10
156.00	4,745.69	2,085.69	9,309.52	308.24	2,283.55	19,871.30
72,415.50	....	....	....	....	....	....
54,600.18	1,844.24	3,582.30	4,739.32	1,643.92	269.73	1,043.93
....	....	....	....	....	....	....
....	....	2,447.51	....	....	....	....
2,251,670.34	45,942.13	49,513.72	212,054.08	42,105.01	37,354.44	108,974.87
17,854.67	2,110.82	13,070.48	5,959.70	7,104.96	1,039.56	9,747.42
10,000.00	12,300.00	20,500.00	....	8,500.00	8,000.00	25,800.00
35,875.53	2,072.42	418.36	17,588.47	31.61	14.20	1,970.19
78,660.72	4,105.86	....	10,702.00	387.09	....	....
....	....	....	....	....	....	....
435,451.71	62,303.29	11,933.26	....	39,938.29	5,410.21	83,265.45
1,940.00	82.00	....	66.64	....	....	247.81
260.75	....	....	....	....	....	....
2,831,713.72	128,916.52	95,435.82	246,370.89	98,066.96	51,818.41	230,005.74
773,999.24	....	2,278.56	....	....	....	....
173,980.26	....	1,810.11	12,986.46	314.23	35.70	1,203.22
....	....	....	....	....	....	....
114,834.45	444.50	433.87	3,235.00	30.00	185.00	963.00
1,062,813.95	444.50	4,522.54	16,221.46	344.23	220.70	2,166.22
435,451.71	62,303.29	11,933.26	....	39,938.29	5,410.21	83,265.45
344,115.23	12,150.97	20,089.22	128,009.15	16,297.95	14,616.47	34,461.33
800.79	479.69	....	900.00	80.29	....	....
780,367.73	74,933.95	32,022.48	128,909.15	56,316.53	20,026.68	117,726.78
529,022.63	13,756.00	34,821.44	....	16,721.31	10,595.00	25,594.32
....	....	....	....	....	....	....
*459,509.41	39,782.07	24,069.36	101,240.28	24,684.89	20,976.03	84,518.42
....	....	....	....	....	....	....
988,532.04	53,538.07	58,890.80	101,240.28	41,406.20	31,571.03	110,112.74
2,831,713.72	128,916.52	95,435.82	246,370.89	98,066.96	51,818.41	230,005.74
42.7	0.7	5.4	6.6	0.6	0.5	1.5

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Orono	Oshawa	Ottawa	Otterville	Owen Sound
Population	P.V.	28,037	161,455	P.V.	16,503
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	125,306.12	606,394.99	600.00	35,684.76
Substation equipment	....	99,978.93	1,710,111.73	....	37,477.75
Distribution system—overhead	9,415.18	398,077.37	1,070,321.40	10,941.10	200,263.93
Distribution system—underground	....	180,468.64	370,140.41	....	343.65
Line transformers	6,465.11	167,541.49	497,400.53	8,314.87	92,958.38
Meters	3,505.89	176,638.62	369,918.61	4,420.66	98,805.79
Street light equipment, regular	1,365.53	98,806.53	185,134.78	1,903.49	42,927.33
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	552.80	48,604.99	41,225.08	628.91	14,876.25
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	21,304.51	1,295,422.69	4,850,647.53	26,809.03	523,337.84
Bank and cash balance	1,436.25	28,861.54	277,821.20	1,636.67	....
Securities and investments	8,000.00	285,000.00	1,140,000.00	6,500.00	7,500.00
Accounts receivable	117.31	129,994.83	103,420.68	213.78	1,322.48
Inventories	....	92,727.39	125,205.35	468.00	39,711.65
Sinking fund on local debentures	....	....	246,700.77	....	....
Equity in H-E.P.C. systems	3,432.70	1,088,383.44	576,954.03	15,659.50	426,883.51
Other assets	....	990.37	1,512.55	....	51,794.02
Frequency standardization expenditure in suspense	....	....	....	....	....
Total assets	34,290.77	2,921,380.26	7,322,262.11	51,286.98	1,050,549.50
LIABILITIES					
Debenture balance	....	....	51,977.06	....	....
Accounts payable	....	84,906.33	165,363.45	901.21	55,749.54
Bank overdraft	....	....	....	....	11,103.08
Other liabilities	....	31,719.93	....	86.38	12,011.49
Total liabilities	....	116,626.26	217,340.51	987.59	78,864.11
RESERVES					
For equity in H-E.P.C. systems	3,432.70	1,088,383.44	576,954.03	15,659.50	426,883.51
For depreciation	1,570.76	153,472.42	2,407,265.99	10,133.71	119,998.63
Other reserves	....	75,928.78	780,458.25	....	2,034.71
Total reserves	5,003.46	1,317,784.64	3,764,678.27	25,793.21	548,916.85
SURPLUS					
Debentures paid	8,000.00	302,622.40	928,022.94	4,500.00	107,718.00
Local sinking fund	....	....	246,700.77	....	....
Operating surplus	21,287.31	1,184,346.96	2,165,519.62	20,006.18	315,050.54
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	29,287.31	1,486,969.36	3,340,243.33	24,506.18	422,768.54
Total liabilities, reserves and surplus	34,290.77	2,921,380.26	7,322,262.11	51,286.98	1,050,549.50
Percentage of net debt to total assets	0.0	6.4	2.5	2.8	12.6

"A"—Continued

Hydro Municipalities as at December 31, 1949

Paisley	Palmerston	Paris	Parkhill	Parry Sound	Penetanguishene	Perth
725	1,499	4,980	1,003	4,627	4,498	4,666
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	13,570.15	....	....	2,288.05	5,109.34
1,923.46	1,346.28	51,372.58	....	22,043.00	7,161.13	17,288.93
16,609.13	37,597.78	72,170.72	25,265.52	39,828.37	62,884.12	62,055.06
....	....	....	....	....	....	....
7,843.27	17,388.95	45,851.46	13,919.63	20,551.75	30,931.65	44,475.05
5,486.69	12,239.40	27,229.51	7,463.68	34,013.52	25,123.00	31,412.60
1,155.73	9,802.96	20,559.65	8,921.76	18,118.16	12,126.91	14,688.93
....	....	....	....	....	....	....
107.15	3,077.04	5,134.98	2,348.14	4,856.28	2,532.33	11,692.52
....	....	....	....	359,132.62	....	....
....	....	....	....	....	....	....
33,125.43	81,452.41	235,889.05	57,918.73	498,543.70	143,047.19	186,722.43
3,758.63	8,817.90	25.00	968.12	1,286.20	12,342.48	100.00
4,500.00	15,600.00	32,500.00	....	20,000.00	40,000.00	92,500.00
257.70	405.25	497.55	387.80	3,202.66	1,720.65	6,724.91
....	5,039.70	....	....	370.00	358.73	24,219.92
....	....	....	....	....	....	....
19,720.11	76,538.42	197,747.75	34,386.85	738.43	112,305.70	130,899.97
....	....	215.03	....	29,310.73	200.00	....
....	....	....	....	....	....	....
61,361.87	187,853.68	466,874.38	93,661.50	553,451.72	309,974.75	441,167.23
....	....	....	....	9,995.06	....	7,911.73
....	33.03	223.33	5,791.70	7,649.91	....	482.35
....	....	3,556.66	....	....	....	4,476.00
57.42	366.86	....	126.32	7,456.02	1,110.00	3,566.29
57.42	399.89	3,779.99	5,918.02	25,100.99	1,110.00	16,436.37
19,720.11	76,538.42	197,747.75	34,386.85	738.43	112,305.70	130,899.97
8,640.21	25,285.56	88,587.82	10,476.88	109,951.75	59,593.38	74,634.43
....	319.84	86.98	....	68.66	888.55	5,687.46
28,360.32	102,143.82	286,422.55	44,863.73	110,758.84	172,787.63	211,221.86
13,623.35	27,000.00	92,000.00	14,630.02	378,504.94	36,982.95	77,133.57
....	....	....	....	....	....	....
19,320.78	58,309.97	84,671.84	28,249.73	39,086.95	99,094.17	136,375.43
....	....	....	....	....	....	....
32,944.13	85,309.97	176,671.84	42,879.75	417,591.89	136,077.12	213,509.00
61,361.87	187,853.68	466,874.38	93,661.50	553,451.72	309,974.75	441,167.23
0.1	0.4	1.4	10.0	4.5	0.6	5.3

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Peterborough 34,948	Petrolia 3,027	Picton 3,915	Plattsville P.V.	Point Edward 1,670
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	169,731.46	38,213.70	11,633.19	....	....
Substation equipment	279,839.38	5,971.75	49,967.91	....	....
Distribution system—overhead	604,026.77	64,417.65	55,721.74	7,508.47	38,029.98
Distribution system—underground	....	....	....	....	....
Line transformers	286,956.09	43,619.62	29,391.72	5,883.77	12,345.01
Meters	215,117.69	21,538.95	31,055.68	3,280.25	9,445.30
Street light equipment, regular	106,957.54	7,190.28	11,081.37	171.79	5,276.70
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	26,195.54	9,056.01	2,538.64	8.91	3,894.44
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	1,688,824.47	190,007.96	191,390.25	16,853.19	68,991.43
Bank and cash balance	5,016.80	2,115.08	6,966.62	1,138.24	2,251.54
Securities and investments	15,000.00	15,000.00	3,500.00	7,500.00	21,000.00
Accounts receivable	68,084.35	3,744.17	1,749.33	505.82	4,211.73
Inventories	46,470.65	10,837.11	9,548.74	....	3,222.61
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	686,961.27	172,427.62	105,183.37	17,239.60	123,397.24
Other assets	1,360.83	346.00	....	30.00	....
Frequency standardization expenditure in suspense	....	....	....	....	123.64
Total assets	2,511,718.37	394,477.94	318,338.31	43,266.85	223,198.19
LIABILITIES					
Debenture balance	12,000.00	....	....	....	....
Accounts payable	63,265.95	118.62	1,713.97	1,338.41	3,382.53
Bank overdraft	....	....	....	....	....
Other liabilities	646.06	1,307.56	5,072.65	....	428.54
Total liabilities	75,912.01	1,426.18	6,786.62	1,338.41	3,811.07
RESERVES					
For equity in H-E.P.C. systems	686,961.27	172,427.62	105,183.37	17,239.60	123,397.24
For depreciation	380,349.90	58,732.48	37,900.87	4,379.23	20,955.06
Other reserves	1,234.04	116.98	968.91	....	60.14
Total reserves	1,068,545.21	231,277.08	144,053.15	21,618.83	144,412.44
SURPLUS					
Debentures paid	488,610.67	50,000.00	3,182.32	5,237.00	17,000.00
Local sinking fund	....	....	....	....	....
Operating surplus	878,650.48	111,774.68	164,316.22	15,072.61	*57,974.68
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	1,367,261.15	161,774.68	167,498.54	20,309.61	74,974.68
Total liabilities, reserves and surplus	2,511,718.37	394,477.94	318,338.31	43,266.85	223,198.19
Percentage of net debt to total assets	4.2	0.6	3.2	5.1	3.8

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Port Colborne	Port Credit	Port Dalhousie	Port Dover	Port Elgin	Port Hope
7,613	2,696	2,348	2,201	2,486	5,724
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
30,326.10	675.00	6,000.00	248.75	111.25	16,780.29
....	....	....	....	....	23,655.31
98,393.40	66,079.92	41,007.85	52,566.25	33,807.66	86,695.11
....	....	....	....	....	....
44,767.20	31,525.31	26,133.25	28,838.99	16,947.98	48,065.82
36,639.75	22,443.19	17,924.05	19,622.86	13,761.28	49,269.09
6,412.44	5,947.78	2,436.68	3,851.55	3,347.92	6,675.42
16,611.59	....	....	....	....	....
12,734.96	4,766.03	2,653.64	1,580.73	3,257.68	8,443.14
....	....	....	....	....	....
9,929.60	....	....	....	4,213.00	....
255,815.04	131,437.23	96,155.47	106,709.13	75,446.77	239,584.18
4,522.15	514.03	5,628.44	2,428.23	5,191.45	9,691.48
105,000.00	1,000.00	....	....	4,500.00	5,000.00
137.33	1,542.02	1,089.01	3,362.91	256.45	489.95
3,170.34	84.08	1,134.30	74.28	....	9,591.94
....	....	....	....	....	....
179,299.12	77,432.92	70,632.72	49,991.38	30,254.80	131,027.61
136.90	....	1,127.39	38.29	....	....
....	....	....	....	....	....
548,080.88	212,010.28	175,767.33	162,604.22	115,649.47	395,385.16
1,910.71	9,137.69	17,000.00	....	3,209.23	....
1,284.69	7,592.88	365.04	549.36	6,351.17	811.48
....	489.07	....	....	....	....
20,919.15	1,311.44	1,590.67	1,042.25	....	11,897.04
24,114.55	18,531.08	18,955.71	1,591.61	9,560.40	12,708.52
179,299.12	77,432.92	70,632.72	49,991.38	30,254.80	131,027.61
57,702.29	29,302.85	10,652.48	28,960.90	12,402.58	51,207.56
229.88	190.59	214.16	....	....	....
237,231.29	106,926.36	81,499.36	78,952.28	42,657.38	182,235.17
144,089.29	15,362.31	16,481.62	29,000.00	38,790.77	78,630.64
....	....	....	....	....	....
142,645.75	71,190.53	58,830.64	53,060.33	24,640.92	121,810.83
....	....	....	....	....	....
286,735.04	86,552.84	75,312.26	82,060.33	63,431.69	200,441.47
548,080.88	212,010.28	175,767.33	162,604.22	115,649.47	395,385.16
2.1	13.8	18.0	1.4	11.2	4.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Port McNicoll 890	Port Perry 1,435	Port Rowan 718	Port Stanley 996	Prescott 3,413
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	369.08	....	....	1,574.60	2,761.54
Substation equipment	....	2,564.65	....	....	....
Distribution system—overhead	17,530.20	28,322.82	15,038.32	41,614.87	52,374.98
Distribution system—underground	....	....	....	....	....
Line transformers	3,771.00	9,741.13	6,182.54	25,786.54	31,273.34
Meters	4,712.52	8,429.88	4,330.50	19,409.16	24,702.11
Street light equipment, regular	709.46	1,942.03	1,183.63	2,738.15	7,976.03
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	169.32	224.86	125.14	745.04	5,171.41
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	27,261.58	51,225.37	26,860.13	91,868.36	124,259.41
Bank and cash balance	....	....	3,402.23	227.74	17,323.48
Securities and investments	1,000.00	16,000.00	....	13,000.00	10,000.00
Accounts receivable	396.83	582.62	256.16	1,186.46	1,085.25
Inventories	190.00	....	....	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	11,161.13	33,398.57	12,874.86	73,890.78	94,294.04
Other assets	....	2,952.00	....	5.16	....
Frequency standardization expenditure in suspense	....	....	....	....	....
Total assets	40,009.54	104,158.56	43,393.38	180,178.50	246,962.18
LIABILITIES					
Debenture balance	2,800.00	....	....	....	....
Accounts payable	277.55	2,310.97	276.44	2,675.58	23,380.83
Bank overdraft	1,868.68	140.37	....	....	....
Other liabilities	268.40	614.00	280.00	193.00	617.40
Total liabilities	5,214.63	3,065.34	556.44	2,868.58	23,998.23
RESERVES					
For equity in H-E.P.C. systems	11,161.13	33,398.57	12,874.86	73,890.78	94,294.04
For depreciation	4,143.20	8,155.95	5,918.75	25,168.31	61,610.21
Other reserves	....	....	....	40.16	....
Total reserves	15,304.33	41,554.52	18,793.61	99,099.25	155,904.25
SURPLUS					
Debentures paid	7,003.58	19,881.66	11,000.00	18,950.00	12,170.99
Local sinking fund	....	....	....	....	....
Operating surplus	12,487.00	39,657.04	13,043.33	59,260.67	54,888.71
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	19,490.58	59,538.70	24,043.33	78,210.67	67,059.70
Total liabilities, reserves and surplus	40,009.54	104,158.56	43,393.38	180,178.50	246,962.18
Percentage of net debt to total assets	18.0	4.3	1.8	3.7	15.7

"A"—Continued

Hydro Municipalities as at December 31, 1949

Preston 7,239	Priceville P.V.	Princeton P.V.	Queenston P.V.	Renfrew 6,434	Richmond 523	Richmond Hill 1,751
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
	68.00			9,393.89		
76,958.20				34,619.88		600.00
105,216.08	10,116.96	5,050.11	9,614.04	64,530.05	7,769.25	22,985.96
81,955.01	3,076.93	4,237.21	4,226.75	47,483.50	3,742.03	19,963.86
52,986.33	988.22	2,193.78	2,307.07	41,707.32	2,574.92	12,475.45
8,604.04	854.96	525.42	498.05	34,942.48	259.95	3,125.47
10,646.64			2,345.22	4,421.78	23.13	
				496,732.50		
32,126.75						
368,493.05	15,105.07	12,006.52	18,991.13	733,831.40	14,369.28	59,150.74
125.00	692.42	4,157.75	2,841.55	3,702.32		1,225.41
18,000.00		7,000.00	7,500.00			7,500.00
2,661.98	100.80	96.90	241.47	15,867.39	411.83	586.85
15,031.47				3,607.01		
445,920.49	1,701.41	17,507.80	12,182.51	6,706.45	6,513.90	39,905.00
63.32				4,902.40		
1,075.00						
851,370.31	17,599.70	40,768.97	41,756.66	768,616.97	21,295.01	108,368.00
1,528.43	4,000.00			44,408.62		
7,265.87	3,097.49	121.64	359.86	13,111.08	206.90	879.65
1,978.45					671.71	
2,335.84			45.00		109.87	1,077.24
13,108.59	7,097.49	121.64	404.86	57,519.70	988.48	1,956.89
445,920.49	1,701.41	17,507.80	12,182.51	6,706.45	6,513.90	39,905.00
160,558.67	1,515.03	4,253.28	5,912.40	114,441.48	3,217.09	7,379.17
398.61				3,270.67		69.37
606,877.77	3,216.44	21,761.08	18,094.91	124,418.60	9,730.99	47.353.54
151,271.57	6,166.10	3,550.00	9,500.00	466,828.11	5,887.33	12,200.00
*80,112.38	1,119.67	15,336.25	13.756.89	119,850.56	4,688.21	46,857.57
231,383.95	7,285.77	18,886.25	23,256.89	586,678.67	10,575.54	59,057.57
851,370.31	17,599.70	40,768.97	41,756.66	768,616.97	21,295.01	108,368.00
3.2	44.6	0.5	1.4	7.5	6.7	2.9

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Ridgetown	Ripley	Riverside	Rockwood	Rodney
Population	2,209	437	6,857	P.V.	859
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	4,124.83	....	12,861.37	79.00	....
Substation equipment	1,024.24	....	7,859.98	....	....
Distribution system—overhead	34,672.40	11,837.92	113,875.35	11,383.84	13,368.30
Distribution system—underground	....	....	....	....	....
Line transformers	15,206.07	6,508.87	39,582.23	4,091.85	6,589.46
Meters	14,216.84	3,306.85	43,180.52	4,907.61	6,496.37
Street light equipment, regular	7,433.78	975.93	....	776.41	3,587.90
Street light equipment, ornamental	1,431.73	....	19,163.24	....	....
Miscellaneous construction expense	1,406.29	....	21,353.28	346.69	44.70
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	79,516.18	22,629.57	257,875.97	21,585.40	30,086.73
Bank and cash balance	3,821.70	1,347.23	100.00	3,169.41	1,265.56
Securities and investments	14,000.00	....	3,000.00	3,600.00	8,200.00
Accounts receivable	817.15	126.52	4,639.14	43.24	713.55
Inventories	635.06	....	7,872.19	88.83	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	74,461.35	14,886.24	147,115.71	19,326.85	23,826.97
Other assets	....	....	....	22.92	....
Frequency standardization expenditure in suspense	....	....	....	....	....
Total assets	173,251.44	38,989.56	420,603.01	47,836.65	64,092.81
LIABILITIES					
Debenture balance	....	....	....	373.01	....
Accounts payable	4,672.70	245.45	5,087.72	75.91	522.82
Bank overdraft	....	....	4,592.33	....	....
Other liabilities	2,331.73	214.83	21,261.61	203.72	335.00
Total liabilities	7,004.43	460.28	30,941.66	652.64	857.82
RESERVES					
For equity in H-E.P.C. systems	74,461.35	14,886.24	147,115.71	19,326.85	23,826.97
For depreciation	23,869.49	5,420.67	64,709.55	10,161.02	8,684.28
Other reserves	11,213.45	....	135.37	....	73.15
Total reserves	109,544.29	20,306.91	211,960.63	29,487.87	32,584.40
SURPLUS					
Debentures paid	19,455.99	12,744.49	82,500.00	4,126.99	8,500.00
Local sinking fund	....	....	....	....	....
Operating surplus	37,246.73	5,477.88	95,200.72	13,569.15	22,150.59
Net frequency standardization expense charged this year	....	....	....	....	....
Total surplus	56,702.72	18,222.37	177,700.72	17,696.14	30,650.59
Total liabilities, reserves and surplus	173,251.44	38,989.56	420,603.01	47,836.65	64,092.81
Percentage of net debt to total assets	5.7	1.9	4.6	2.3	2.1

"A"—Continued

Hydro Municipalities as at December 31, 1949

Rosseau	Russell	St. Catharines	St. Clair Beach	St. George	St. Jacobs
240	P.V.	35,436	322	P.V.	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	31,162.35	....	....	....
....	....	261,609.71	....	....	....
8,004.42	13,665.06	394,954.62	13,129.63	7,324.95	8,967.79
....	....	....	....	....	....
2,405.53	3,375.11	295,472.56	4,166.31	8,050.69	7,891.82
1,364.70	2,875.64	213,540.84	3,582.06	4,564.47	5,063.38
623.60	1,344.70	31,077.90	1,485.48	1,948.53	493.20
....	....	29,486.71	....	....	....
1,067.16	46.89	17,241.28	22.00	....	73.50
....	....	....	....	....	....
....	....	....	....	....	....
13,465.41	21,307.40	1,274,545.97	22,385.48	21,888.64	22,489.69
2,021.59	4,337.47	48,462.70	199.59	4,070.55	2,719.99
2,500.00	3,500.00	403,000.00	3,500.00	6,000.00	10,000.00
120.43	1,069.97	58,759.31	302.06	175.05	522.38
....	....	36,277.15	....	....	....
....	....	....	....	....	....
7,130.13	10,229.54	1,323,424.43	12,338.52	24,293.20	30,171.63
....	....	620.56	....	....	10.00
....	....	5,263.14	....	....	....
25,237.56	40,444.38	3,150,353.26	38,725.65	56,427.44	65,913.69
3,927.35	....	5,250.00	....	....	....
1,000.00	6,358.22	144,656.29	100.00	....	185.14
....	....	....	....	....	....
20.00	15.00	49,742.46	111.45	222.51	....
4,947.35	6,373.22	199,648.75	211.45	222.51	185.14
7,130.13	10,229.54	1,323,424.43	12,338.52	24,293.20	30,171.63
4,134.67	1,161.32	375,967.08	7,659.75	2,200.60	6,030.85
68.74	....	3,167.09	34.74	....	....
11,333.54	11,390.86	1,702,558.60	20,033.01	26,493.80	36,202.48
9,072.65	8,808.12	296,772.91	6,341.45	6,000.00	6,000.00
....	....	....	....	....	....
†115.98	13,872.18	*951,373.00	12,139.74	23,711.13	23,526.07
....	....	....	....	....	....
8,956.67	22,680.30	1,248,145.91	18,481.19	29,711.13	29,526.07
25,237.56	40,444.38	3,150,353.26	38,725.65	56,427.44	65,913.69
27.3	21.1	9.5	0.8	0.69	0.5

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra. † Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	St. Marys	St. Thomas	Sarnia	Scarborough Twp. V.A.
Population	3,929	19,135	23,284	
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	19,669.56	79,143.04	150,215.67	23,016.77
Substation equipment	33,936.42	171,260.26	259,770.72	46,537.22
Distribution system—overhead	84,016.36	163,526.10	296,930.93	630,456.14
Distribution system—underground	....	99,947.38	127,215.99	....
Line transformers	47,826.41	103,094.13	142,219.61	252,593.69
Meters	33,422.15	94,787.18	132,076.27	177,286.78
Street light equipment, regular	7,398.02	30,675.36	30,730.63	41,221.03
Street light equipment, ornamental	....	3,693.04	8,271.83	....
Miscellaneous construction expense	22,812.99	8,533.47	87,536.83	17,000.20
Steam or hydraulic plant	....	....	....	....
Old plant	....	....	....	....
Total plant	249,081.91	754,659.96	1,234,968.48	1,188,111.83
Bank and cash balance	4,961.91	300.00	13,564.15	124,817.99
Securities and investments	....	108,000.00	15,000.00	....
Accounts receivable	1,527.17	19,495.54	47,737.64	24,203.34
Inventories	8,381.96	28,247.99	67,332.19	....
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	224,469.23	859,456.72	1,096,993.31	377,365.46
Other assets	335.47	3,240.84	6,954.19	429.12
Frequency standardization expenditure in suspense	....	....	9,187.23	56,741.16
Total assets	488,757.65	1,773,401.05	2,491,737.19	1,771,668.90
LIABILITIES				
Debenture balance	43,730.10	....	96,000.00	200,000.00
Accounts payable	202.06	6,397.00	4,006.00	93,989.87
Bank overdraft	....	1,650.88	....	....
Other liabilities	1,594.00	21,997.18	25,471.94	125,417.70
Total liabilities	45,526.16	30,045.06	125,477.94	419,407.57
RESERVES				
For equity in H-E.P.C. systems	224,469.23	859,456.72	1,096,993.31	377,365.46
For depreciation	86,578.33	282,939.22	320,633.94	241,395.53
Other reserves	701.02	402.12	5,078.35	15,916.01
Total reserves	311,748.58	1,142,798.06	1,422,705.60	634,677.00
SURPLUS				
Debentures paid	110,530.28	138,944.07	342,000.00	290,568.27
Local sinking fund	....	....	....	....
Operating surplus	20,952.63	461,613.86	*601,553.65	*427,016.06
Net frequency standardization expense charged this year	....	....	....	....
Total surplus	131,482.91	600,557.93	943,553.65	717,584.33
Total liabilities, reserves and surplus	488,757.65	1,773,401.05	2,491,737.19	1,771,668.90
Percentage of net debt to total assets	17.2	2.9	8.5	31.4

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Seaforth 1,971	Shelburne 1,209	Simcoe 6,908	Smiths Falls 8,335	Smithville P.V.	Southampton 1,792
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,836.39	800.00	11,422.49	40,750.67	....	25.00
8,930.07	566.60	42,577.90	8,411.82	....	....
33,883.59	22,358.93	82,405.53	118,952.04	13,312.55	35,891.26
....	....	1,412.24	....	....	....
22,473.64	16,612.71	72,818.84	62,054.23	6,033.22	16,517.69
15,509.50	10,638.35	52,606.34	52,744.08	5,811.47	14,118.19
5,789.27	8,737.78	24,363.88	22,340.93	1,731.00	6,019.72
....	....	1,037.04	....	....	....
3,068.52	338.68	10,658.40	10,521.59	165.29	1,932.96
....	....	....	....	....	....
....	....	927.92	....	1,878.98	....
91,490.98	60,053.05	300,230.58	315,775.36	28,932.51	74,504.82
20.00	....	470.93	623.15	4,167.18	176.98
9,000.00	7,500.00	42,500.00	67,360.00	12,500.00	7,500.00
6,493.49	402.48	4,898.11	706.74	26.58	369.43
1,180.17	....	20,331.85	8,336.81	459.92	....
....	....	....	....	....	....
106,533.66	33,846.29	208,667.56	194,422.77	5,705.64	28,894.19
51.20	....	424.59	....	....	....
....	....	....	....	....	....
214,769.50	101,801.82	577,523.62	587,224.83	51,791.83	111,445.42
5,968.31	....	1,790.45	....	1,007.67	....
4,038.94	73.34	860.79	2,617.50	....	2,923.72
356.98	981.10	....	....	....	....
603.78	81.00	3,684.68	419.35	60.00	4.17
10,968.01	1,135.44	6,335.92	3,036.85	1,067.67	2,927.89
106,533.66	33,846.29	208,667.56	194,422.77	5,705.64	28,894.19
23,527.28	22,157.34	75,374.40	114,410.12	7,479.38	11,365.71
251.52	....	....	160.55	....	....
130,312.46	56,003.63	284,041.96	308,993.44	13,185.02	40,259.90
29,031.69	16,991.04	73,644.45	122,787.33	13.992.33	30,522.93
....	....	....	....	....	....
44,457.34	27,671.71	213,501.29	152,407.21	23,546.81	37,734.70
....	....	....	....	....	....
73,489.03	44,662.75	287,145.74	275,194.54	37,539.14	68,257.63
214,769.50	101,801.82	577,523.62	587,224.83	51,791.83	111,445.42
10.1	1.7	1.7	0.8	2.3	3.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Springfield	Stamford Twp.	Stayner	Stirling
Population	455	V.A.	1,120	1,115
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	...	33,510.98	...	8,522.88
Substation equipment	...	58,800.72	200.00	8,034.64
Distribution system—overhead	11,955.86	257,660.18	20,085.09	11,302.20
Distribution system—underground	...	...	...	...
Line transformers	5,018.30	129,330.79	12,403.05	8,114.80
Meters	3,250.21	85,910.10	10,645.91	8,172.01
Street light equipment, regular	629.47	18,288.73	1,761.44	3,477.33
Street light equipment, ornamental	...	...	...	...
Miscellaneous construction expense	253.60	24,087.77	...	759.38
Steam or hydraulic plant	...	...	...	...
Old plant	...	13,743.66	...	...
Total plant	21,107.44	621,332.93	45,095.49	48,383.24
Bank and cash balance	2,990.03	56,631.52	3,550.87	9,478.02
Securities and investments	5,500.00	6,000.00	11,000.00	12,500.00
Accounts receivable	128.99	18,887.32	484.49	638.35
Inventories	...	29,512.89	223.73	1,364.46
Sinking fund on local debentures	...	...	...	...
Equity in H-E.P.C. systems	15,091.24	182,790.60	30,303.38	17,851.27
Other assets	...	803.27	200.00	...
Frequency standardization expenditure in suspense	...	...	...	...
Total assets	44,817.70	915,958.53	90,857.96	90,215.34
LIABILITIES				
Debenture balance	...	194,599.68	...	...
Accounts payable	936.52	2,821.85	1,824.53	346.76
Bank overdraft	...	...	...	...
Other liabilities	25.00	8,259.59	436.78	415.93
Total liabilities	961.52	205,681.12	2,261.31	762.69
RESERVES				
For equity in H-E.P.C. systems	15,091.24	182,790.60	30,303.38	17,851.27
For depreciation	6,399.58	141,491.32	16,944.88	11,357.08
Other reserves	...	871.88	38.90	...
Total reserves	21,490.82	325,153.80	47,287.16	29,208.35
SURPLUS				
Debentures paid	9,500.00	245,678.49	9,557.26	10,000.00
Local sinking fund	...	...	...	...
Operating surplus	12,865.36	139,445.12	31,752.23	50,244.30
Net frequency standardization expense charged this year	...	...	...	...
Total surplus	22,365.36	385,123.61	41,309.49	60,244.30
Total liabilities, reserves and surplus	44,817.70	915,958.53	90,857.96	90,215.34
Percentage of net debt to total assets	3.2	28.1	3.7	1.1

"A"—Continued

Hydro Municipalities as at December 31, 1949

Stoney Creek	Stouffville	Stratford	Strathroy	Streetsville	Sunderland
1,395	1,438	18,548	3,333	870	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	141,455.78	9,373.61	12,202.72	....
....	....	187,174.58	43,832.45	1,172.04	....
29,515.35	20,392.37	165,515.51	60,096.08	13,251.69	6,775.30
....	....	22,971.15	....	....	....
19,038.90	12,700.38	129,776.33	45,082.81	12,823.51	4,206.15
14,484.59	8,154.53	114,776.75	22,742.64	7,492.58	3,459.07
1,381.16	2,295.22	27,351.38	7,074.15	1,619.31	802.58
....	....	....	....	....	....
690.64	739.79	30,726.28	2,589.06	1,104.05	....
....	....	....	....	10,641.55	....
....	....	31,520.00	....	....	....
65,110.64	44,282.29	851,267.76	190,790.80	60,307.45	15,243.10
3,564.26	5,608.03	49,805.45	4,964.51	4,845.80	2,240.52
....	6,000.00	383,000.00	24,000.00	....	....
174.45	170.73	21,301.27	1,757.84	317.51	189.77
....	....	20,095.50	547.44	....	51.10
....	....	37,481.04	....	....	....
1,824.39	32,628.45	997,898.37	157,974.90	9,966.73	17,315.97
....	....	2,552.00	....	....	300.00
....	....	....	1,754.14	....	....
70,673.74	88,689.50	2,363,401.39	381,789.63	75,437.49	35,340.46
38,585.56	....	50,000.00	2,978.93	....	....
4,311.01	568.74	1,050.40	1,263.17	4,350.49	1,404.34
....	....	....	....	....	....
364.14	626.05	7,033.39	1,226.59	300.65	15.00
43,260.71	1,194.79	58,083.79	5,468.69	4,651.14	1,419.34
1,824.39	32,628.45	997,898.37	157,974.90	9,966.73	17,315.97
4,468.76	4,018.23	471,709.77	61,558.24	6,719.92	5,383.27
....	50.96	3,552.21	144.87	....	52.28
6,293.15	36,697.64	1,473,160.35	219,678.01	16,686.65	22,751.52
1,414.44	14,673.90	405,800.00	50,909.92	17,545.08	4,627.78
....	....	37,481.04	....	....	....
19,705.44	36,123.17	388,876.21	*105,733.01	36,554.62	6,541.82
....	....	....	....	....	....
21,119.88	50,797.07	832,157.25	156,642.93	54,099.70	11,169.60
70,673.74	88,689.50	2,363,401.39	381,789.63	75,437.49	35,340.46
62.8	2.1	4.3	2.4	7.1	7.9

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Sutton	Swansea	Tara	Tavistock
Population	1,114	7,360	491	1,079
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings		5,577.66		3,783.53
Substation equipment		132.18		
Distribution system—overhead	27,615.71	109,479.65	16,395.75	16,976.77
Distribution system—underground				
Line transformers	18,890.88	69,121.25	5,665.52	10,697.76
Meters	11,181.93	45,574.92	2,948.06	8,502.94
Street light equipment, regular	2,764.32	22,147.03	2,825.90	1,301.20
Street light equipment, ornamental				
Miscellaneous construction expense	1,538.73	31,374.35	175.50	1,049.73
Steam or hydraulic plant				
Old plant				
Total plant	61,991.57	283,407.04	28,010.73	42,311.93
Bank and cash balance	4,118.84	1,350.58	219.08	15.00
Securities and investments	7,000.00	20,000.00		11,500.00
Accounts receivable	724.47	1,255.57	134.64	164.87
Inventories		121.32		2,829.50
Sinking fund on local debentures				
Equity in H-E.P.C. systems	32,639.24	174,698.00	15,294.35	79,176.85
Other assets		118.98		
Frequency standardization expenditure in suspense	8.25			
Total assets	106,482.37	480,951.49	43,658.80	135,998.15
LIABILITIES				
Debenture balance		32,959.31		
Accounts payable	933.83	3,070.08	676.61	316.46
Bank overdraft				1,313.11
Other liabilities	20.00	5,415.59		
Total liabilities	953.83	41,444.98	676.61	1,629.57
RESERVES				
For equity in H-E.P.C. systems	32,639.24	174,698.00	15,294.35	79,176.85
For depreciation	14,652.31	73,291.99	3,985.54	16,853.85
Other reserves	145.84	245.59		
Total reserves	47,437.39	248,235.58	19,279.89	96,030.70
SURPLUS				
Debentures paid	25,325.00	69,707.65	14,263.64	6,000.00
Local sinking fund				
Operating surplus	*32,766.15	121,563.28	9,438.66	32,337.88
Net frequency standardization expense charged this year				
Total surplus	58,091.15	191,270.93	23,702.30	38,337.88
Total liabilities, reserves and surplus	106,482.37	480,951.49	43,658.80	135,998.15
Percentage of net debt to total assets	1.3	13.5	2.4	2.9

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Tecumseh 3,343	Teeswater 849	Thamesford P.V.	Thamesville 857	Thedford 579	Thornbury 943
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,232.16	...	...	1,083.57	...	...
...	...	...	...	...	4,404.73
52,987.27	20,708.54	11,420.29	18,314.44	12,427.72	14,120.93
...	...	...	...	...	...
17,677.43	9,183.01	4,777.88	10,815.63	8,824.65	11,098.69
21,164.53	6,836.46	4,396.95	6,584.44	4,108.88	7,205.11
276.77	4,043.35	612.03	3,052.08	1,703.10	1,388.86
4,760.95	...	...	...	...	...
1,855.67	...	934.72	232.21	1,826.88	376.41
...	...	...	...	...	36,000.00
...	...	...	...	...	...
99,954.78	40,771.36	22,141.87	40,082.37	28,891.23	74,594.73
1,698.73	665.41	...	2,018.83	3,345.86	...
5,000.00	11,000.00	2,000.00	10,500.00	10,000.00	...
2,164.14	92.74	178.33	836.51	936.49	226.83
453.60	...	...	...	...	...
...	...	...	...	...	...
47,968.13	22,181.73	30,033.35	30,089.18	17,575.55	1,491.92
...	...	...	...	7.27	...
...	...	...	...	...	...
157,239.38	74,711.14	54,353.55	83,526.89	60,756.40	76,313.48
...	...	...	...	...	5,317.72
769.11	1,089.11	390.51	414.23	2,298.14	415.43
...	...	2.21	...	...	532.15
5,510.26	804.00	104.00	574.00	134.33	20.00
6,279.37	1,893.11	496.72	988.23	2,432.47	6,285.30
47,968.13	22,181.73	30,033.35	30,089.18	17,575.55	1,491.92
26,226.70	12,528.17	8,570.26	15,883.07	5,973.87	2,783.67
494.01	...	...	144.39	...	...
74,688.84	34,709.90	38,603.61	46,116.64	23,549.42	4,275.59
26,000.00	21,296.14	5,358.03	11,187.80	16,500.00	50,682.28
...	...	...	...	...	...
50,271.17	16,811.99	9,895.19	25,234.22	18,274.51	15,070.31
...	...	...	...	...	...
76,271.17	38,108.13	15,253.22	36,422.02	34,774.51	65,752.59
157,239.38	74,711.14	54,353.55	83,526.89	60,756.40	76,313.48
1.5	3.6	2.0	1.8	5.6	8.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Thorndale	Thornton	Thorold	Tilbury
Population	P.V.	P.V.	6,173	2,205
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	14,788.52	11,987.47
ubstation equipment	....	....	48,904.99	....
Distribution system—overhead	5,463.16	7,907.92	70,634.73	31,225.08
Distribution system—underground	....	....	....	....
Line transformers	3,495.62	4,547.29	38,647.20	28,387.93
Meters	2,474.26	1,409.12	37,155.13	13,881.55
Street light equipment, regular	222.51	519.06	9,807.83	18,141.76
Street light equipment, ornamental	....	....	....	....
Miscellaneous construction expense	148.95	....	10,355.76	2,420.39
Steam or hydraulic plant	....	....	....	....
Old plant	....	....	....	....
Total plant	11,804.50	14,383.39	230,294.16	106,044.18
Bank and cash balance	260.29	66.18	50.00	....
Securities and investments	1,500.00	1,000.00	30,800.00	....
Accounts receivable	582.27	37.98	239.56	1,555.65
Inventories	845.53	....	10,596.42	120.19
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	14,696.33	5,842.49	192,551.58	93,321.19
Other assets	....	347.49	....	5.32
Frequency standardization expenditure in suspense	....	....	....	....
Total assets	29,688.92	21,677.53	464,531.72	201,046.53
LIABILITIES				
Debenture balance	....	....	....	....
Accounts payable	715.41	913.84	25,162.35	5,450.41
Bank overdraft	....	....	8,256.12	3,539.36
Other liabilities	455.57	50.00	3,034.50	1,022.25
Total liabilities	1,170.98	963.84	36,452.97	10,012.02
RESERVES				
For equity in H-E.P.C. systems	14,696.33	5,842.49	192,551.58	93,321.19
For depreciation	4,488.00	8,274.56	42,839.94	28,859.57
Other reserves	27.73	....	....	148.60
Total reserves	19,212.06	14,117.05	235,391.52	122,329.26
SURPLUS				
Debentures paid	3,086.48	7,199.65	5,000.00	14,000.00
Local sinking fund	....	....	....	....
Operating surplus	6,219.40	†603.01	187,687.23	54,705.25
Net frequency standardization expense charged this year	....	....	....	....
Total surplus	9,305.88	6,596.64	192,687.23	68,705.25
Total liabilities, reserves and surplus	29,688.92	21,677.53	464,531.72	201,046.53
Percentage of net debt to total assets	7.8	6.1	13.4	8.0

† Deficit

"A"—Continued

Hydro Municipalities as at December 31, 1949

Tillsonburg 4,727	Toronto* 680,000	Toronto Twp. V.A.	Tottenham 551	Trafalgar Twp. V.A.	Trenton 9,337
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
16,670.04	5,581,363.94	13,667.16	....	12,896.07	6,054.20
21,899.54	16,442,192.01	....	358.50	839.61	61,856.00
70,885.75	7,868,210.14	349,635.12	13,186.71	63,496.43	154,055.54
....	4,506,691.49	....	....	....	....
50,102.84	4,710,255.19	191,566.10	6,077.65	31,893.90	59,827.69
37,123.35	3,495,871.42	110,296.70	4,281.90	16,884.41	59,760.24
26,608.94	948,543.70	14,150.58	1,167.14	192.54	14,241.09
....	....	....	....	....	10,549.81
7,989.76	2,207,972.56	20,227.93	920.96	5,303.86	13,868.68
....	....	....	....	....	....
....	....	619.65	....	....	....
231,280.22	45,761,100.45	700,163.24	25,992.86	131,506.82	380,213.25
100.00	219,255.38	4,671.04	2,496.40	20.00	1,322.77
....	12,200,400.00	8,000.00	....	....	105,500.00
954.88	2,433,203.96	8,672.41	260.13	3,055.25	4,109.18
4,835.10	1,259,659.52	25,042.79	546.42	4,922.47	17,708.08
....	....	....	....	....	....
157,805.30	35,313,825.78	235,619.01	19,104.45	23,862.00	193,339.28
....	540,138.81	81.94	....	....	326.40
....	....	....	....	....	....
394,975.50	97,727,583.90	982,250.43	48,400.26	163,366.54	702,518.96
6,446.08	635,500.00	48,990.84	9,462.33	....	....
....	1,968,377.58	57,920.94	288.89	21,349.00	6,529.09
6,659.59	....	....	....	17,491.83	....
4,669.98	172,222.38	20,206.87	294.60	498.00	6,335.93
17,775.65	2,776,099.96	127,118.65	10,045.82	39,338.83	12,865.02
157,805.30	35,313,825.78	235,619.01	19,104.45	23,862.00	193,339.28
48,999.81	17,900,094.97	204,150.38	5,088.22	32,146.06	106,171.55
185.41	1,105,833.94	209.76	....	....	....
206,990.52	54,319,754.69	439,979.15	24,192.67	56,008.06	299,510.83
39,553.92	28,887,912.24	105,009.16	11,972.64	28,887.56	164,586.70
....	....	....	....	....	....
130,655.41	11,750,142.74	310,143.47	2,189.13	39,132.09	225,556.41
....	*6,325.73*	....	....	....	....
170,209.33	40,631,729.25	415,152.63	14,161.77	68,019.65	390,143.11
394,975.50	97,727,583.90	982,250.43	48,400.26	163,366.54	702,518.96
7.5	4.4	17.0	34.3	28.2	2.5

*Includes 1949 power adjustment and equity in H-E.P.C. system.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Tweed	Uxbridge	Victoria Harbour	Walkerton
Population	1,700	1,630	933	2,979
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	....	47.92
Substation equipment	....	2,657.65	....	....
Distribution system—overhead	25,132.29	25,925.09	14,372.34	52,429.32
Distribution system—underground	....	....	....	....
Line transformers	13,090.48	11,125.86	3,660.33	33,541.73
Meters	9,213.07	10,072.89	5,630.38	20,428.74
Street light equipment, regular	2,663.69	2,118.31	366.32	7,167.94
Street light equipment, ornamental	....	....	....	....
Miscellaneous construction expense	....	169.98	20.00	4,369.34
Steam or hydraulic plant	....	....	....	....
Old plant	....	....	....	4,897.60
Total plant	50,099.53	52,069.78	24,049.37	122,882.59
Bank and cash balance	6,792.74	1,184.12	411.67	8,879.74
Securities and investments	12,000.00	9,000.00	1,500.00	30,000.00
Accounts receivable	2,394.81	529.16	157.20	616.81
Inventories	1,288.61	121.27	112.60	990.07
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	21,409.37	36,654.70	11,246.57	47,469.98
Other assets	....	851.20	....	106.15
Frequency standardization expenditure in suspense	....	....	....	....
Total assets	93,985.06	100,410.23	37,477.41	210,945.34
LIABILITIES				
Debenture balance	....	....	....	9,399.85
Accounts payable	338.50	1,712.84	66.73	314.86
Bank overdraft	....	....	....	....
Other liabilities	312.00	817.00	....	425.50
Total liabilities	650.50	2,529.84	66.73	10,140.21
RESERVES				
For equity in H-E.P.C. systems	21,409.37	36,654.70	11,246.57	47,469.98
For depreciation	2,479.46	7,637.82	7,988.78	16,550.39
Other reserves	143.49	184.37	....	37.15
Total reserves	24,032.32	44,476.89	19,235.35	64,057.52
SURPLUS				
Debentures paid	19,000.00	15,364.09	5,878.70	53,600.15
Local sinking fund	....	....	....	....
Operating surplus	50,302.24	38,039.41	12,296.63	83,147.46
Net frequency standardization expense charged this year	....	....	....	....
Total surplus	69,302.24	53,403.50	18,175.33	136,747.61
Total liabilities, reserves and surplus	93,985.06	100,410.23	37,477.41	210,945.34
Percentage of net debt to total assets	0.9	4.0	0.2	6.2

"A"—Continued

Hydro Municipalities as at December 31, 1949

Wallaceburg	Wardsville	Warkworth	Waterdown	Waterford	Waterloo
6,920	315	P.V.	1,070	1,546	10,680
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
55,789.65	...	...	200.00	1,323.44	19,587.15
68,934.73	...	...	...	...	124,729.38
115,929.96	6,963.11	6,263.18	21,012.25	17,801.48	137,723.17
...	...	...	...	...	...
77,624.77	2,825.61	1,757.91	11,940.59	14,865.70	104,158.63
43,731.42	2,746.89	2,792.43	8,864.09	10,505.82	59,206.06
13,645.78	662.94	343.08	1,469.98	3,231.62	17,477.13
...	...	...	...	...	3,106.80
7,389.37	137.89	609.19	1,220.79	600.60	9,671.32
...	...	...	...	...	...
...	...	3,618.02	...	...	23,880.17
383,045.68	13,336.44	15,383.81	44,707.70	48,328.66	499,539.81
35,137.24	542.27	2,228.52	...	5,440.21	3,692.56
70,500.00	4,000.00	4,200.00	6,000.00	11,000.00	5,000.00
6,806.18	595.45	40.51	274.01	211.48	3,387.48
22,767.15	...	...	138.75	150.00	1,614.32
...	...	...	...	...	...
363,052.87	6,575.34	7,471.37	37,054.15	55,591.81	486,128.81
5,416.68	...	...	21.87	...	74.43
...	...	...	...	...	...
886,725.80	25,049.50	29,324.21	88,196.48	120,722.16	999,437.41
...	...	3,366.26	...	...	...
1,209.85	140.23	486.74	700.66	427.97	6,304.30
...	...	...	487.06	...	...
3,923.68	...	25.20	109.28	...	6,736.80
5,133.53	140.23	3,878.20	1,297.00	427.97	13,041.10
363,052.87	6,575.34	7,471.37	37,054.15	55,591.81	486,128.81
100,594.76	5,000.13	2,992.08	12,544.55	16,145.10	204,167.24
1,803.79	25.22	...	...	...	400.00
465,451.42	11,600.69	10,463.45	49,598.70	71,736.91	690,696.05
71,536.58	7,562.40	7,633.74	8,000.00	7,745.53	106,000.00
...	...	...	...	...	...
344,604.27	5,746.18	7,348.82	29,300.78	40,811.75	189,700.26
...	...	...	...	...	...
416,140.85	13,308.58	14,982.56	37,300.78	48,557.28	295,700.26
886,725.80	25,049.50	29,324.21	88,196.48	120,722.16	999,437.41
1.0	0.8	17.7	2.5	0.6	1.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Watford	Waubaushene	Welland	Wellesley
Population	1,079	P.V.	16,004	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	857.01	....	79,869.27	....
Substation equipment	....	....	170,436.10	....
Distribution system—overhead	18,455.96	12,531.62	214,616.01	8,900.92
Distribution system—underground	....	....	8,426.23	....
Line transformers	9,285.97	4,399.80	141,457.69	5,266.54
Meters	7,803.69	4,325.35	104,643.66	4,394.36
Street light equipment, regular	2,757.32	374.53	45,479.73	785.22
Street light equipment, ornamental	....	....	41,105.28	....
Miscellaneous construction expense	1,570.09	15.00	8,641.17	748.18
Steam or hydraulic plant	....	....	....	....
Old plant	....	....	....	....
Total plant	40,730.04	21,646.30	814,675.14	20,095.22
Bank and cash balance	4,003.75	325.02	19,462.86	1,240.92
Securities and investments	19,800.00	....	112,796.23	6,000.00
Accounts receivable	418.05	1,713.15	6,388.93	10.58
Inventories	1,079.84	....	24,026.19	73.41
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	43,910.60	8,816.59	603,756.26	26,225.36
Other assets	21.64	15.59	71.74	....
Frequency standardization expenditure in suspense	....	....	....	....
Total assets	109,963.92	32,516.65	1,581,177.35	53,645.49
LIABILITIES				
Debenture balance	....	....	....	....
Accounts payable	9.50	1,036.76	28,329.44	130.13
Bank overdraft	....	....	....	....
Other liabilities	322.10	600.00	55,185.80	15.00
Total liabilities	331.60	1,636.76	83,515.24	145.13
RESERVES				
For equity in H-E.P.C. systems	43,910.60	8,816.59	603,756.26	26,225.36
For depreciation	15,877.14	3,747.85	241,748.89	5,970.69
Other reserves	92.53	125.00	3,625.48	....
Total reserves	59,880.27	12,689.44	849,130.63	32,196.05
SURPLUS				
Debentures paid	9,055.77	3,242.34	275,000.00	7,500.00
Local sinking fund	....	....	....	....
Operating surplus	40,696.28	14,948.11	373,531.48	13,804.31
Net frequency standardization expense charged this year	....	....	....	....
Total surplus	49,752.05	18,190.45	648,531.48	21,304.31
Total liabilities, reserves and surplus	109,963.92	32,516.65	1,581,177.35	53,645.49
Percentage of net debt to total assets	0.5	6.8	4.5	0.5

"A"—Continued

Hydro Municipalities as at December 31, 1949

Wellington	West Lorne	Weston	Westport	Wheatley	Whitby	Wiarton
1,036	927	7,219	687	969	4,638	1,837
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
200.00	22,310.45	21,620.44	....	52.50	78,984.99	....
499.80	....	67,608.13	....	....	34,288.16	333.57
17,798.37	16,304.99	145,677.52	8,507.35	23,941.12	84,247.89	27,091.34
....	....	....	....	....	....	....
10,278.49	8,651.95	101,412.28	2,800.67	14,299.03	30,162.21	15,325.30
9,330.54	7,032.52	50,266.76	3,111.88	9,261.13	31,534.78	12,010.00
1,388.47	3,738.72	15,492.52	733.02	9,501.28	13,719.40	3,513.56
....	....	....	....	....	....	....
73.70	323.57	11,542.24	1,349.38	1,572.93	13,956.80	6,471.87
....	....	....	....	....	....	....
....	....	....	1,713.00	....	1,340.13	1,870.35
39,569.37	58,362.20	413,619.89	18,215.30	58,627.99	288,234.36	66,615.99
8,092.30	55.00	150.00	1,235.95	647.61	10,158.68	4,423.19
12,000.00	....	....	4,500.00	....	....	14,000.00
208.82	221.61	7,617.43	....	157.07	6,115.96	2,150.92
....	465.46	1,096.55	....	....	15,402.34	....
....	....	....	....	....	....	....
19,958.96	42,791.91	427,305.37	10,758.51	26,290.31	100,458.91	30,530.08
....	92.88	20.70	....	.48	121.76	....
....	....	....	....	....	....	....
79,829.45	101,989.06	849,809.94	34,709.76	85,723.46	420,492.01	117,720.18
....	....	14,500.00	2,317.48	....	1,041.07	8,172.78
....	3,851.65	17,269.58	283.96	6,314.20	21,720.00	3,799.04
....	3,338.82	12,903.51	....	....	....	....
46.25	323.00	2,261.43	352.42	150.00	1,681.31	177.21
46.25	7,513.47	46,934.52	2,953.86	6,464.20	24,442.38	12,149.03
19,958.96	42,791.91	427,305.37	10,758.51	26,290.31	100,458.91	30,530.08
11,396.82	12,311.16	71,103.23	3,482.30	13,495.57	58,089.57	8,544.53
....	65.12	365.40	....	44.30	....	84.95
31,355.78	55,168.19	498,774.00	14,240.81	39,830.18	158,548.48	39,159.56
13,816.12	8,000.00	70,032.44	12,682.52	13,000.00	75,571.43	29,227.22
....	....	....	....	....	....	....
34,611.30	31,307.40	234,068.98	4,832.57	26,429.08	161,929.72	37,184.37
....	....	....	....	....	....	....
48,427.42	39,307.40	304,101.42	17,515.09	39,429.08	237,501.15	66,411.59
79,829.45	101,989.06	849,809.94	34,709.76	85,723.46	420,492.01	117,720.18
0.1	12.7	11.1	12.3	1.1	7.6	13.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Williamsburg	Winchester	Windermere	Windsor*
Population	P.V.	1,094	118	118,702
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings		299.85		612,595.46
Substation equipment				1,689,361.58
Distribution system—overhead	4,212.74	14,664.58	10,451.19	1,575,429.68
Distribution system—underground				555,413.06
Line transformers	2,718.05	9,057.02	5,291.36	740,489.28
Meters	2,662.24	8,600.46	1,756.89	723,945.70
Street light equipment, regular	859.02	2,943.90	247.26	108,211.00
Street light equipment, ornamental				1,021,495.33
Miscellaneous construction expense	35.38	143.50	525.65	256,376.38
Steam or hydraulic plant				
Old plant		1,100.00		166,440.66
Total plant	10,487.43	36,809.31	18,272.35	7,449,758.13
Bank and cash balance	8,251.43	4,329.31	903.95	1,000.00
Securities and investments	21,000.00	10,500.00	2,600.00	1,069,798.18
Accounts receivable	1,086.96	325.56	176.45	221,078.97
Inventories			16.88	362,719.38
Sinking fund on local debentures				104,178.98
Equity in H-E.P.C. systems	10,818.52	35,426.90	5,081.82	5,718,369.29
Other assets			343.34	810.00
Frequency standardization expenditure in suspense				
Total assets	51,644.34	87,391.08	27,394.79	14,927,712.93
LIABILITIES				
Debenture balance			1,931.25	190,000.00
Accounts payable	2,662.34	411.36	90.73	183,469.22
Bank overdraft				248,995.79
Other liabilities	293.43	10.00		1,157,614.83
Total liabilities	2,955.77	421.36	2,021.98	1,780,079.84
RESERVES				
For equity in H-E.P.C. systems	10,818.52	35,426.90	5,081.82	5,718,369.29
For depreciation	5,225.88	13,019.60	5,892.51	2,173,228.79
Other reserves	325.61			240,796.63
Total reserves	16,370.01	48,446.50	10,974.33	8,132,394.71
SURPLUS				
Debentures paid	2,750.00	10,306.06	9,832.05	2,393,832.05
Local sinking fund				104,178.98
Operating surplus	29,568.56	28,217.16	4,566.43	2,517,227.35
Net frequency standardization expense charged this year				
Total surplus	32,318.56	38,523.22	14,398.48	5,015,238.38
Total liabilities, reserves and surplus	51,644.34	87,391.08	27,394.79	14,927,712.93
Percentage of net debt to total assets	7.2	0.8	9.1	9.4

*Includes 1949 power adjustment and equity in H-E.P.C. system.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Wingham 2,368	Woodbridge 1,250	Woodstock 13,533	Woodville 408	Wyoming 644	York Twp. V.A.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
22,951.02	....	68,326.18	....	50.00	96,789.13
4,863.91	....	142,430.86	....	....	498,980.44
55,182.43	22,486.26	191,031.94	4,050.72	13,974.99	1,043,514.54
....	....	....	....	....	....
27,935.81	12,145.32	110,022.65	2,133.84	5,074.99	531,304.26
24,172.62	8,948.18	104,696.55	2,513.58	5,428.29	464,634.62
11,534.41	2,723.35	34,615.17	574.98	548.49	126,248.30
....	....	....	....	....	....
15,340.89	49.70	21,092.54	....	809.52	78,160.10
14,711.99	....	33,009.60	....	....	....
12,320.02	....	....	....	....	....
189,013.10	46,352.81	705,225.49	9,273.12	25,886.28	2,839,631.39
....	595.39	....	1,426.77	931.02	65,798.80
....	12,000.00	....	5,000.00	2,600.00	200,000.00
4,485.90	47.37	6,547.44	143.40	157.89	79,127.47
23,326.40	....	315.76	....	....	45,292.77
....	....	....	....	....	....
72,526.38	59,658.73	730,658.52	16,578.56	14,491.58	1,395,709.35
614.49	....	260.72	....	....	....
....	....	....	....	....	7,748.71
289,966.27	118,654.30	1,443,007.93	32,421.85	44,066.77	4,633,308.49
5,576.95	....	....	329.70	....	....
10,000.00	931.17	7,118.11	....	924.96	111,978.72
199.82	....	40,281.10	....	....	....
1,593.15	913.36	10,254.71	15.00	63.89	98,194.49
17,369.92	1,844.53	57,653.92	344.70	988.85	210,173.21
72,526.38	59,658.73	730,658.52	16,578.56	14,491.58	1,395,709.35
43,875.50	16,785.28	228,388.72	3,799.41	7,442.17	907,738.90
....	....	1,086.01	544.81	32.63	16,878.25
116,401.88	76,444.01	960,133.25	20,922.78	21,966.38	2,320,326.50
90,528.55	8,499.97	127,385.63	5,248.09	9,700.00	489,374.65
....	....	....	....	....	....
65,665.92	31,865.79	297,835.13	5,906.28	11,411.54	*1,613,434.13
....	....	....	....	....	....
156,194.47	40,365.76	425,220.76	11,154.37	21,111.54	2,102,808.78
289,966.27	118,654.30	1,443,007.93	32,421.85	44,066.77	4,633,308.49
8.0	3.1	8.1	2.2	3.3	6.5

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*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality Population	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 33,220	Nipigon V.A.
Assets	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	12,878,917.04	109,322.31	215.03
Substation equipment	....	31,298,729.31	261,128.50	....
Distribution system—overhead	9,193.76	32,444,474.09	337,179.31	27,174.26
Distribution system—underground	....	8,663,874.53	....	....
Line transformers	5,562.48	18,587,369.46	164,096.48	11,204.41
Meters	4,315.99	14,348,428.34	147,713.80	8,356.00
Street light equipment, regular	621.57	4,435,596.70	95,043.21	5,626.79
Street light equipment, ornamental	....	1,564,378.72	....	....
Miscellaneous construction expense	303.34	4,434,588.47	76,544.83	1,497.00
Steam or hydraulic plant	....	1,153,541.33	....	....
Old plant	....	753,299.50	....	....
Total plant	19,997.14	130,563,197.49	1,191,028.44	54,073.49
Bank and cash balance	670.85	2,578,912.58	....	315.11
Securities and investments	6,000.00	23,209,561.67	205,300.00	11,000.00
Accounts receivable	74.93	4,691,757.28	58,921.73	470.54
Inventories	....	4,013,153.66	66,811.67	....
Sinking fund on local debentures	....	388,360.79	167,798.77	....
Equity in H-E.P.C. systems	22,817.83	94,528,394.73	1,590,997.86	19,334.40
Other assets	....	1,084,192.32	4,656.30	....
Frequency standardization expenditure in suspense	....	155,744.87	....	....
Total assets	49,560.75	261,213,275.39	3,285,514.77	85,193.54
Liabilities				
Debenture balance	....	4,168,802.31	250,000.00	....
Accounts payable	49.89	5,338,343.00	83,931.08	401.01
Bank overdraft	....	919,080.83	2,686.04	....
Other liabilities	10.00	2,766,894.83	47,077.45	445.23
Total liabilities	59.89	13,193,120.97	383,694.57	846.24
Reserves				
For equity in H-E.P.C. systems	22,817.83	94,528,394.73	1,590,997.86	19,334.40
For depreciation	6,034.77	42,073,116.29	271,814.93	6,076.46
Other reserves	....	4,389,235.60	37,631.91	....
Total reserves	28,852.60	140,990,746.62	1,900,444.70	25,410.86
Surplus				
Debentures paid	5,591.61	54,062,996.17	124,209.11	10,000.00
Local sinking fund	....	388,360.79	167,798.77	....
Operating surplus	15,056.65	52,586,279.20	709,367.62	48,936.44
Net frequency standardization expense charged this year	....	*8,228.36*	....	....
Total surplus	20,648.26	107,029,407.80	1,001,375.50	58,936.44
Total liabilities, reserves and surplus	49,560.75	261,213,275.39	3,285,514.77	85,193.54
Percentage of net debt to total assets	0.2	6.8	14.1	0.1

"A"—Continued

Hydro Municipalities as at December 31, 1949

THUNDER BAY SYSTEM—

Port Arthur 29,165	Red Rock I.D.	Schreiber V.A.	Terrace Bay I.D.	THUNDER BAY SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.
533,436.77	....	4,500.00	....	647,474.11
429,278.36	900.00	....	....	691,306.86
662,182.29	17,893.38	26,639.71	42,348.37	1,113,417.32
....	....	....	....	....
181,194.80	9,055.30	7,724.03	13,846.54	387,121.56
184,411.23	4,422.39	6,111.08	8,455.48	359,469.98
96,389.75	3,601.86	1,169.43	12,647.10	214,478.14
....	....	....	....	....
28,010.95	2,628.00	40.00	548.00	109,268.78
325,003.44	....	....	....	325,003.44
....	....	19,962.18	....	19,962.18
2,439,907.59	38,500.93	66,146.43	77,845.49	3,867,502.37
6,678.82	2,975.11	1,242.14	8,158.87	19,370.05
627,000.00	....	....	....	843,300.00
68,032.84	534.09	260.61	....	128,219.81
61,785.66	....	6,465.06	2.36	135,064.75
....	....	13,338.43	....	181,137.20
3,911,426.49	678.87	....	830.63	5,523,268.25
500.00	....	....	....	5,156.30
....	....	....	....	....
7,115,331.40	42,689.00	87,452.67	86,837.35	10,703,018.73
....	28,860.00	46,162.69	....	325,022.69
95,444.61	3,534.77	9,973.53	6.99	193,291.99
....	....	....	....	2,686.04
....	....	....	76,444.73	123,967.41
95,444.61	32,394.77	56,136.22	76,451.72	644,968.13
3,911,426.49	678.87	....	830.63	5,523,268.25
932,683.83	1,452.00	923.00	3,012.00	1,215,962.22
145,671.53	....	....	....	183,303.44
4,989,781.85	2,130.87	923.00	3,842.63	6,922,533.91
627,246.73	2,340.00	3,837.31	....	767,633.15
....	....	13,338.43	....	181,137.20
1,402,858.21	5,823.36	13,217.71	6,543.00	2,186,746.34
....	....	....	....	....
2,030,104.94	8,163.36	30,393.45	6,543.00	3,135,516.69
7,115,331.40	42,689.00	87,452.67	86,837.35	10,703,018.73
3.0	77.1	57.7	88.8	9.2

STATEMENT

Balance Sheets of Electrical Departments of

NORTHERN ONTARIO PROPERTIES

Municipality	Capreol	Larder Lake	McGarry	North Bay
Population	1,775	V.A.	I.D.	18,047
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	450.00	...	...	61,459.13
Substation equipment	9,730.32	...	...	108,501.91
Distribution system—overhead	15,128.49	19,415.20	13,210.55	200,065.48
Distribution system—underground	9,189.10	10,861.00	7,066.00	71,356.24
Line transformers	...	...	...	...
Meters	10,059.18	9,006.26	6,400.72	114,291.70
Street light equipment, regular	5,234.81	2,269.55	768.00	39,789.69
Street light equipment, ornamental	...	...	...	...
Miscellaneous construction expense	1,106.65	2,413.72	427.51	24,946.64
Steam or hydraulic plant	...	...	...	...
Old plant	...	...	...	...
Total plant	50,898.55	43,965.73	27,872.78	620,410.79
Bank and cash balance	2,808.66	4,252.10	6,087.84	...
Securities and investments	1,000.00	...	...	6,100.00
Accounts receivable	944.57	129.74	29.22	14,645.44
Inventories	647.84	...	...	24,647.79
Sinking fund on local debentures	...	...	...	...
Equity in H-E.P.C. systems	...	...	...	...
Other assets	...	...	...	...
Frequency standardization expenditure in suspense	...	...	...	...
Total assets	56,299.62	48,347.57	33,989.84	665,804.02
LIABILITIES				
Debenture balance	...	18,000.00	14,000.00	...
Accounts payable	2,985.72	3,261.76	...	20,896.11
Bank overdraft	...	...	...	21,915.97
Other liabilities	470.00	5,394.34	3,621.37	45,632.23
Total liabilities	3,455.72	26,656.10	17,621.37	88,444.31
RESERVES				
For equity in H-E.P.C. systems	...	...	...	...
For depreciation	10,948.45	10,247.00	5,402.00	284,585.34
Other reserves	82.34	10,156.07	9,698.31	4,155.16
Total reserves	11,030.79	20,403.07	15,100.31	288,740.50
SURPLUS				
Debentures paid	19,000.00	...	...	228,157.68
Local sinking fund	...	...	...	...
Operating surplus	22,813.11	1,288.40	1,268.16	60,461.53
Net frequency standardization expense charged this year	...	...	...	...
Total surplus	41,813.11	1,288.40	1,268.16	288,619.21
Total liabilities, reserves and surplus	56,299.62	48,347.57	33,989.84	665,804.02
Percentage of net debt to total assets	6.1	55.1	51.8	13.3

"A"—Continued

Hydro Municipalities as at December 31, 1949

Sioux Lookout 2,155	Sudbury 41,206	NORTHERN ONTARIO PROPERTIES SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.
...	171,401.53	233,310.66	13,759,701.81
...	297,671.41	415,903.64	32,405,939.81
24,020.66	496,205.02	768,045.40	34,325,936.81
...	...	...	8,663,874.53
12,880.23	181,377.28	292,729.85	19,267,220.87
10,897.11	191,806.16	342,461.13	15,050,359.45
1,917.69	147,938.98	197,918.72	4,847,993.56
...	...	...	1,564,378.72
1,225.00	34,590.14	64,709.66	4,608,566.91
...	...	...	1,478,544.77
...	...	...	773,261.68
50,940.69	1,520,990.52	2,315,079.06	136,745,778.92
7,168.27	35,586.58	55,903.45	2,654,186.08
...	50,000.00	57,100.00	24,109,961.67
808.41	42,148.21	58,705.59	4,878,682.68
...	55,623.18	80,918.81	4,229,137.22
...	...	...	569,497.99
...	...	...	100,051,662.98
...	...	...	1,089,348.62
...	...	...	155,744.87
58,917.37	1,704,348.49	2,567,706.91	274,484,001.03
...	19,919.63	51,919.63	4,545,744.63
824.89	106,754.24	134,722.72	5,666,357.71
...	...	21,915.97	943,682.84
3,027.42	35,125.34	93,270.70	2,984,132.94
3,852.31	161,799.21	301,829.02	14,139,918.12
...	...	...	00,051,662.98
1,684.72	291,652.36	604,519.87	43,893,598.38
...	77,347.80	101,439.68	4,673,978.72
1,684.72	369,000.16	705,959.55	148,619,240.08
...	447,418.90	694,576.58	55,525,205.90
...	...	...	569,497.99
53,380.34	726,130.22	865,341.76	55,638,367.30
...	...	...	*8,228.36*
53,380.34	1,173,549.12	1,559,918.34	111,724,842.83
58,917.37	1,704,348.49	2,567,706.91	274,484,001.03
65.3	9.5	11.7	7.0

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population	2,412	P.V.	501	2,194	2,009
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	24,574.01	9,552.67	4,283.70	13,963.18	19,595.22
Commercial light service	9,730.88	3,182.80	1,610.17	11,998.00	10,619.65
Commercial power service	36,824.26	5,693.59	2,131.59	5,258.69	7,746.48
Municipal power	833.47			824.12	995.88
Street lighting	2,507.74	942.00	670.00	2,210.20	2,098.20
Merchandise					
Miscellaneous	365.30	448.42	261.18	1,192.43	400.02
Total earnings	74,835.66	19,819.48	8,956.64	35,446.62	41,455.45
EXPENSES					
Cost of power supplied by H-E.P.C.	53,636.71	12,801.80	6,097.29	16,259.50	20,865.48
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	5,490.65	205.65	876.25	2,772.08	2,713.80
Line transformer maintenance	54.39	109.42		350.35	254.55
Meter maintenance	722.53	33.73	23.25	383.14	411.76
Consumers' premises expenses	80.46	195.70			1,207.82
Street lighting, operation and maintenance	425.89	180.47	121.56	301.94	381.55
Promotion of business	73.82				
Billing and collecting	1,435.04	731.66	433.46	1,402.68	1,585.38
General office, salaries and expenses	1,696.90	210.80	100.87	1,319.47	1,401.35
Undistributed expenses	1,240.18		15.07	127.57	153.50
Truck operation and maintenance	447.11			483.59	615.20
Interest			35.05		
Sinking fund and principal payments on debentures					
Depreciation	2,303.00	962.00	448.00	1,388.00	2,098.00
Other reserves					
Total operating costs and fixed charges	67,606.68	15,431.23	8,150.80	24,788.32	31,688.39
Net surplus	7,228.98	4,388.25	805.84	10,658.30	9,767.06
Net loss					
NUMBER OF CONSUMERS					
Domestic service	766	228	166	540	517
Commercial light service	109	35	54	140	134
Power service	22	6	5	17	24
Total	897	269	225	697	675

"B"

Hydro Municipalities for Year Ended December 31, 1949

Almonte 2,623	Alvinston 668	Amherstburg 3,313	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 389	Arnprior 4,552
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
22,972.98	4,403.34	35,564.18	18,632.38	1,862.25	4,468.84	30,304.80
9,319.36	3,622.15	15,895.92	6,127.99	1,103.51	2,317.23	17,111.37
19,619.69	1,347.76	14,096.19	1,331.11	329.97	148.15	24,147.35
1,634.00	228.00	....	477.85	....	....	2,678.82
2,860.50	1,670.00	2,789.04	1,193.00	478.50	1,349.92	3,754.19
1,811.32	....	....	37.40	....	....	....
5,488.54	342.59	764.18	.75	116.06	120.80	2,873.19
63,706.39	11,613.84	69,109.51	27,800.48	3,890.29	8,404.94	80,869.72
19,606.49	6,234.52	48,091.01	16,031.45	1,632.91	5,280.67	46,128.98
9,682.98	....	....	....	....	....	....
351.39	....	....	....	....	....	....
3,199.71	557.80	4,191.47	1,334.73	425.03	956.06	3,471.05
130.29	15.00	223.06	835.39	....	23.27	315.03
507.97	27.00	669.91	185.27	2.50	....	336.63
148.34	....	1,627.54	59.22	....	....	58.00
469.70	139.19	1,496.30	117.75	44.00	150.12	691.33
....	....	....	....	....	....	....
3,004.92	412.65	1,336.68	997.63	317.26	227.00	2,905.15
3,262.04	378.29	1,843.32	1,618.96	169.68	367.80	2,696.08
478.86	43.62	590.87	128.35	....	9.75	425.46
835.46	....	626.71	808.64	....	....	....
990.52	....	29.39	740.22	....	6.37	293.21
3,789.25	....	....	1,164.92	....	....	3,489.94
5,676.00	720.00	4,059.00	1,836.00	182.00	371.00	2,410.00
....	....	....	....	....	....	....
52,133.92	8,528.07	64,785.26	25,858.53	2,773.38	7,392.04	63,220.86
11,572.47	3,085.77	4,324.25	1,941.95	1,116.91	1,012.90	17,648.86
....	....	....	....	....	....	....
723	236	897	442	75	135	1,091
116	57	187	52	25	39	178
26	5	22	11	1	1	29
865	298	1,106	505	101	175	1,298

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Arthur	Athens	Aurora	Aylmer	Ayr
Population	1,192	760	3,392	3,280	837
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	8,920.49	7,509.77	37,155.56	23,723.40	8,038.52
Commercial light service	7,982.79	3,468.79	12,882.95	17,049.42	3,591.79
Commercial power service	1,469.82	666.65	27,723.37	21,021.33	4,812.36
Municipal power	430.92	....	1,991.16	1,512.34	....
Street lighting	1,630.63	882.00	3,811.27	3,996.67	1,192.00
Merchandise	21.67	....	....	....	....
Miscellaneous	156.29	176.04	505.09	1,012.39	251.77
Total earnings	20,612.61	12,703.25	84,069.40	68,315.55	17,886.44
EXPENSES					
Cost of power supplied by H-E.P.C.	12,953.17	5,040.84	49,551.64	43,031.96	11,592.20
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution, system operation and maintenance	1,612.96	320.71	3,979.51	4,221.64	1,383.27
Line transformer maintenance	....	....	381.48	132.21	....
Meter maintenance	167.55	90.97	401.51	327.76	38.40
Consumers' premises expenses	....	....	3,685.69	122.65	1.35
Street lighting, operation and maintenance	397.45	58.46	643.34	822.52	311.70
Promotion of business	....	....	....	4.88	....
Billing and collecting	825.38	580.47	2,202.51	2,296.72	1,063.60
General office, salaries and expenses	325.80	125.76	2,276.06	1,667.58	154.81
Undistributed expenses	54.79	....	1,375.49	706.52	76.54
Truck operation and maintenance	....	....	1,091.62	623.80	....
Interest	120.08	....	....	34.80	20.57
Sinking fund and principal payments on debentures	578.95	....	....	....	382.11
Depreciation	940.00	751.00	1,993.00	3,624.00	960.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	17,976.13	6,968.21	67,581.85	57,617.04	15,984.55
Net surplus	2,636.48	5,735.04	16,487.55	10,698.51	1,901.89
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	295	227	962	899	256
Commercial light service	84	43	144	198	50
Power service	8	2	29	27	9
Total	387	272	1,135	1,124	315

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Baden	Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton
P.V.	11,914	368	P.V.	1,591	943	579
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,947.73	121,051.20	4,861.66	6,149.23	17,207.98	10,599.10	5,298.73
2,364.15	59,064.05	1,095.87	876.10	6,778.83	4,995.14	3,914.65
11,820.72	53,706.36	213.44	20,475.75	3,185.93	3,553.09	1,354.43
...	4,621.84	...	...	...	...	...
720.00	7,791.85	447.96	541.00	2,021.95	1,723.59	1,456.00
...	427.34	...	...	...	61.42	6.32
300.94	4,391.27	...	680.42	744.10	280.95	221.58
21,153.54	251,053.91	6,618.93	28,722.50	29,938.79	21,213.29	12,251.71
18,947.40	125,805.77	2,947.27	21,069.16	18,674.87	11,598.30	6,196.30
...	3,107.36	...	...	...	...	...
...	89.90	...	...	...	...	...
386.40	25,429.64	236.82	592.83	254.52	1,134.82	1,244.64
9.33	751.26	...	67.71	...	86.70	...
92.99	3,884.90	36.83	526.62	92.78	23.06	117.54
51.63	3,056.35	...	412.16	38.64	366.72	...
458.33	1,233.11	24.00	199.53	319.31	230.11	96.92
...	44.75	...	...	...	...	...
424.73	7,788.38	320.15	345.80	1,957.84	1,289.78	492.16
192.42	4,739.34	176.83	457.35	1,409.47	848.36	294.64
35.01	3,252.90	...	11.00	16.82	16.75	51.71
...	2,738.20	...	...	...	...	...
...	...	113.94	...	...	...	...
...	...	506.61	...	...	...	...
631.00	15,222.22	265.00	653.00	1,540.00	1,145.00	531.00
...	128.40	...	...	...	...	...
21,229.24	197,272.48	4,627.45	24,335.16	24,304.25	16,739.60	9,004.91
...	53,781.43	1,991.48	4,387.34	5,634.54	4,473.69	3,246.80
75.70	...	...	...	...	...	...
181	3,098	94	196	492	392	168
33	496	17	26	90	74	41
3	81	1	4	9	11	6
217	3,675	112	226	591	477	215

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population	1,250	17,637	2,272	622	690
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	9,398.33	157,857.47	12,780.39	4,901.21	5,597.72
Commercial light service	5,022.88	83,611.07	12,957.87	3,265.44	3,277.07
Commercial power service	570.56	65,940.51	9,671.13	1,928.16	5,925.00
Municipal power	1,867.06	5,788.20	1,565.23	....	....
Street lighting	1,824.00	13,060.88	3,928.55	848.25	1,382.64
Merchandise	....	5,892.61	1,167.57	....	....
Miscellaneous	77.51	2,851.06	718.77	445.54	281.65
Total earnings	18,760.34	335,001.80	42,789.51	11,388.60	16,464.08
EXPENSES					
Cost of power supplied by H-E.P.C.	11,116.27	220,918.75	21,874.50	7,000.26	9,639.55
Substation operation	....	4,541.57	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,599.63	8,775.47	2,524.16	236.93	997.83
Line transformer maintenance	160.34	317.48	144.58	4.95	0.80
Meter maintenance	625.88	6,495.30	971.45	16.47	232.64
Consumers' premises expenses	50.75	2,967.44	1,326.75	....	12.20
Street lighting, operation and maintenance	387.20	4,367.85	1,081.08	225.82	215.62
Promotion of business	....	467.36	48.52	....	....
Billing and collecting	1,062.36	11,228.63	3,637.20	524.63	559.90
General office, salaries and expenses	984.47	10,555.95	4,493.46	214.45	128.92
Undistributed expenses	76.36	2,137.71	11.45	2.36	36.40
Truck operation and maintenance	....	3,537.93	....	....	....
Interest	6.93	....	13.10	....	13.35
Sinking fund and principal payments on debentures	....	....	....	....	....
Depreciation	1,459.00	16,769.00	3,544.00	496.00	522.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	17,529.19	293,080.44	39,670.25	8,721.87	12,359.21
Net surplus	1,231.15	41,921.36	3,119.26	2,666.73	4,104.87
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	415	4,990	686	204	213
Commercial light service	63	714	163	51	58
Power service	6	126	23	8	7
Total	484	5,830	872	263	278

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Bobcaygeon	Bolton	Bothwell	Bowmanville	Bradford	Braeside	Brampton
1,080	796	704	4,315	1,373	420	7,124
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
13,700.96	8,002.04	3,576.63	50,804.89	12,976.75	2,501.22	73,213.88
8,493.73	3,913.28	2,860.61	17,007.40	11,351.48	581.34	27,042.02
1,049.19	3,291.18	1,707.68	70,199.42	10,536.58	5,929.61	27,287.15
....	174.75	135.20	1,497.74	639.06	....	3,348.51
2,676.16	1,137.95	1,351.64	4,539.44	1,404.00	420.00	7,302.89
....	....	....	4,336.10	32.75	....	....
200.46	382.50	542.84	5,634.04	250.98	20.06	1,620.82
26,120.50	16,901.70	10,174.60	154,019.03	37,191.60	9,452.23	139,815.27
9,902.27	8,585.60	6,222.10	96,221.77	18,528.24	5,438.09	100,428.43
1,882.82	....	....	42.75	....	....	....
....	....	....	....	....	....	331.94
1,551.07	681.00	1,032.22	5,756.82	3,310.58	551.83	2,650.46
71.75	123.75	....	80.50	148.96	46.69	36.87
131.66	787.47	153.48	1,116.94	505.41	91.66	343.85
....	37.74	....	2,654.28	71.21	....	442.27
373.98	162.82	414.91	503.61	212.54	27.40	1,064.65
....	....	13.50	164.49	24.53	....	....
1,171.52	901.09	408.86	3,669.62	1,173.12	296.47	3,428.14
514.14	664.82	348.75	5,654.84	986.54	270.80	2,419.89
139.91	24.19	2.46	3,079.64	203.44	....	429.87
....	....	....	27.57	734.32	....	1,012.12
1,613.12	....	....	....	....	184.71	....
3,231.09	....	....	....	....	235.74	....
2,932.00	1,006.00	580.00	4,985.00	1,961.00	194.00	5,395.00
....	....	....	....	....	....	....
23,515.33	12,974.48	9,176.28	123,957.83	27,859.89	7,337.39	117,983.49
2,605.17	3,927.22	998.32	30,061.20	9,331.71	2,114.84	21,831.78
....	....	....	....	....	....	....
435	225	212	1,517	390	108	2,003
89	54	68	199	96	9	310
5	15	10	32	20	3	68
529	294	290	1,748	506	120	2,381

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Brantford	Brantford Twp.	Brechin	Bridgeport	Brigden
Population	35,807	V.A.	P.V.	P.V.	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	249,972.77	96,213.69	2,281.29	8,062.91	2,825.24
Commercial light service	124,392.48	13,974.91	1,328.17	2,704.09	2,219.71
Commercial power service	390,101.28	14,935.63	787.26	2,609.25	3,276.73
Municipal power	10,414.70	....	....	....	172.25
Street lighting	35,894.72	9,257.93	394.34	954.00	794.88
Merchandise	....	....	....	....	....
Miscellaneous	11,301.62	1,095.40	18.26	109.89	201.04
Total earnings	822,077.57	135,477.56	4,809.32	14,440.14	9,489.85
EXPENSES					
Cost of power supplied by H-E.P.C.	624,483.26	78,263.82	1,826.67	8,664.90	5,446.57
Substation operation	13,516.09	....	....	....	....
Substation maintenance	3,162.67	434.37	....	....	....
Distribution system, operation and maintenance	12,178.58	4,508.37	261.39	638.76	803.12
Line transformer maintenance	3,246.71	923.46	....	290.49	52.48
Meter maintenance	14,310.20	1,797.99	24.57	6.50	156.68
Consumers premises expenses	24,711.11	18.87	....	31.22	....
Street lighting, operation and maintenance	7,084.22	2,657.05	47.00	183.58	159.57
Promotion of business	66.00	....	....	....	....
Billing and collecting	14,886.11	4,317.09	291.69	884.98	390.05
General office, salaries and expenses	18,780.64	4,591.37	53.87	241.47	322.05
Undistributed expenses	967.79	1,284.16	....	12.81	15.93
Truck operation and maintenance	....	2,264.76	....	....	....
Interest	107.50	6,108.71	12.02	....	....
Sinking fund and principal payments on debentures	....	7,068.57	96.95	....	....
Depreciation	29,227.00	8,671.00	230.00	1,019.00	731.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	766,727.88	122,909.59	2,844.16	11,973.71	8,077.45
Net surplus	55,349.69	12,567.97	1,965.16	2,466.43	1,412.40
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	9,458	2,589	58	253	139
Commercial light service	1,538	119	17	28	47
Power service	252	17	2	5	6
Total	11,248	2,725	77	286	192

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Brighton 1,947	Brockville 11,852	Brussels 772	Burford P.V.	Burgessville P.V.	Burlington 5,105	Caledonia 1,500
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
15,971.49	92,279.03	7,627.60	8,533.23	2,586.67	64,662.17	10,152.93
6,991.46	37,035.86	4,104.50	3,267.51	924.54	27,345.76	7,537.95
6,261.61	127,350.12	3,934.34	2,557.11	1,498.71	22,948.58	3,157.14
....	8,390.72	....	....	....	1,038.14	353.97
2,028.12	8,943.00	1,254.18	726.53	312.00	3,130.51	2,400.25
108.31	....	....	0.33	....	....	24.76
347.24	6,086.10	437.28	159.65	104.49	1,165.14	148.18
31,708.23	280,084.83	17,357.90	15,244.36	5,426.41	120,290.30	23,775.18
19,095.56	203,280.93	11,272.12	11,717.61	3,197.72	60,607.61	13,531.21
....	9,594.10	....	....	....	....	....
....	210.18	....	....	....	....	....
2,682.92	5,551.43	827.92	922.49	340.46	4,153.09	1,275.81
283.27	197.12	57.06	5.30	17.15	513.82	60.92
531.14	3,084.47	269.27	134.30	434.63	1,421.05	192.13
....	....	....	....	....	2,204.86	6.96
326.91	1,375.18	174.44	245.68	71.63	1,039.78	568.81
....	....	....	....	....	....	5.00
1,130.59	4,778.94	199.59	737.61	159.84	8,549.30	1,372.19
2,225.82	7,487.73	643.84	431.76	38.33	3,192.40	1,687.83
261.49	2,098.94	19.03	31.02	1.18	143.71	131.59
859.62	1,641.39	....	....	....	412.12	596.48
....	....	....	17.15	3.11	3,619.92	154.09
....	....	....	....	....	6,409.13	500.00
1,323.00	8,499.00	1,270.00	867.00	272.00	5,608.00	1,426.00
....	....	....	....	....	....	....
28,720.32	247,799.41	14,733.27	15,109.92	4,536.05	97,874.79	21,509.02
2,987.91	32,285.42	2,624.63	134.44	890.36	22,415.51	2,266.16
....	....	....	....	....	....	....
562	3,634	283	269	67	1,509	503
125	467	70	51	19	175	115
10	86	9	5	3	24	11
697	4,187	362	325	89	1,708	629

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Campbellville P.V.	Cannington 818	Cardinal 1,711	Carleton Place 4,408	Cayuga 710
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c
Domestic service	2,170.78	8,228.26	12,632.00	32,736.09	5,742.58
Commercial light service	545.34	3,710.20	3,816.39	14,416.65	5,367.05
Commercial power service	391.70	3,530.62	456.42	33,280.74	6,063.70
Municipal power	....	....	....	1,736.97	395.67
Street lighting	400.00	1,338.76	1,271.00	5,065.73	1,546.98
Merchandise	....	....	....	....	12.70
Miscellaneous	108.52	452.55	....	2,329.85	251.72
Total earnings	3,616.34	17,260.39	18,175.81	89,566.03	19,380.40
EXPENSES					
Cost of power supplied by H-E.P.C.	2,711.48	9,359.43	12,876.23	57,833.89	8,792.09
Substation operation	....	....	....	102.32	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	7.75	1,026.32	905.45	6,506.20	1,229.38
Line transformer maintenance	....	....	110.81	403.33	106.50
Meter maintenance	1.50	201.77	125.78	1,420.89	434.63
Consumers premises expenses	....	246.78	....	226.38	....
Street lighting, operation and maintenance	36.89	148.31	164.34	636.67	291.04
Promotion of business	....	25.21	....	160.44	....
Billing and collecting	123.75	1,059.81	788.31	3,152.38	1,108.74
General office, salaries and expenses	87.60	558.50	273.72	5,330.49	761.61
Undistributed expenses	0.81	32.51	....	660.84	236.23
Truck operation and maintenance	....	....	....	789.82	....
Interest	....	....	15.41	....	....
Sinking fund and principal payments on debentures	....	....	591.73	....	....
Depreciation	134.00	748.00	759.00	3,921.00	1,330.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	3,103.78	13,406.64	16,610.78	81,144.65	14,290.22
Net surplus	512.56	3,853.75	1,565.03	8,421.38	5,090.18
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	64	302	440	1,248	205
Commercial light service	11	74	65	218	76
Power service	1	11	3	21	12
Total	76	387	508	1,487	293

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Chatham	Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton
20,263	392	1,772	1,241	1,504	436	2,409
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
143,156.47	3,668.30	14,977.50	7,777.50	10,597.97	4,452.98	23,700.99
137,519.06	2,963.15	6,108.38	6,147.45	2,986.42	3,691.16	11,707.86
155,490.96	844.38	7,656.91	11,709.65	338.03	1,019.06	6,640.18
8,942.36	....	904.44	....	730.87	....	1,700.27
29,485.51	682.00	2,426.04	1,288.50	3,178.16	968.97	2,675.08
10,205.71	....	59.77	....	....	....	129.90
4,211.00	66.25	366.19	297.76	177.78	125.73	985.73
489,011.07	8,224.08	32,499.23	27,220.86	18,009.23	10,257.90	47,540.01
256,882.52	5,165.55	24,330.32	18,101.71	9,607.13	6,124.95	32,213.62
9,751.03	....	....	....	....	....	823.56
15,527.74	....	....	....	....	....	....
28,459.69	299.93	1,404.52	1,411.28	893.13	214.49	1,914.43
5,154.09	....	38.37	115.66	172.50	....	107.60
7,296.48	10.99	273.70	208.43	522.19	38.80	752.04
10,905.56	....	42.70	95.70	25.62	9.00	548.42
10,301.93	51.53	435.33	185.61	672.55	112.23	470.99
14,710.41	....	....	....	....	....	....
18,488.16	....	1,157.40	864.36	1,121.89	343.58	1,810.11
27,358.71	376.35	1,061.30	475.15	1,033.82	155.90	2,996.13
11,357.11	9.31	107.73	123.65	140.04	19.48	233.03
13,765.97	....	104.63	430.36	782.93	....	457.94
9,180.22	....	56.37	....	....	151.24	2.00
30,543.49	....	....	....	....	399.21	....
33,121.00	282.00	2,283.00	997.00	1,380.00	360.00	3,291.00
1,000.00	....	....	....	....	....	....
503,804.11	6,195.66	31,295.37	23,008.91	16,351.80	7,928.88	45,620.87
....	2,028.42	1,203.86	4,211.95	1,657.43	2,329.02	1,919.14
14,793.04	....	....	....	....	....	....
5,394	126	521	286	449	147	716
995	40	96	71	48	39	150
157	1	27	6	3	2	21
6,546	167	644	363	500	188	887

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Cobden	Cobourg	Colborne	Coldwater	Collingwood
Population	691	6,459	1,049	645	6,729
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,383.05	64,767.09	11,714.23	5,537.45	49,814.78
Commercial light service	4,322.59	29,167.22	6,248.04	3,366.96	22,327.79
Commercial power service	4,781.52	44,077.21	1,231.08	3,944.94	41,904.40
Municipal power	....	2,215.51	224.12	....	1,776.44
Street lighting	822.00	6,447.78	1,524.00	1,021.00	5,442.58
Merchandise	....	437.44	2,641.37	....	4.44
Miscellaneous	61.68	1,730.98	208.26	140.96	1,425.03
Total earnings	15,370.84	148,843.23	23,791.10	14,011.31	122,695.46
EXPENSES					
Cost of power supplied by H-E.P.C.	10,016.16	86,330.65	10,414.92	2,878.99	80,669.21
Substation operation	....	....	....	....	616.84
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	434.69	5,371.50	1,952.62	820.57	8,648.20
Line transformer maintenance	....	76.79	165.58	32.00	234.21
Meter maintenance	14.85	1,090.09	213.71	175.41	845.08
Consumers' premises expenses	....	547.89	1,258.30	64.18	....
Street lighting, operation and maintenance	186.81	1,347.50	322.40	124.93	778.67
Promotion of business	....	22.02	....	....	....
Billing and collecting	639.59	6,785.66	1,257.51	680.96	3,271.86
General office, salaries and expenses	130.21	5,560.03	989.07	392.98	2,378.19
Undistributed expenses	....	2,232.00	223.78	85.93	570.33
Truck operation and maintenance	....	2,444.70	870.26	....	1,507.85
Interest	15.09	722.93	186.67	....	....
Sinking fund and principal payments on debentures	183.13	6,541.89	977.24	....	....
Depreciation	329.00	7,909.00	717.00	640.00	4,127.00
Other reserves	....	....	....	....	150.00
Total operating costs and fixed charges	11,949.53	127,072.65	19,549.06	5,895.95	103,797.44
Net surplus	3,421.31	21,770.58	4,242.04	8,115.36	18,898.02
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	224	1,842	342	176	2,020
Commercial light service	68	269	86	53	337
Power service	6	65	6	4	62
Total	298	2,176	434	233	2,419

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Comber	Cookstown	Cottam	Courtright	Creemore	Dashwood	Delaware
P.V.	P.V.	P.V.	455	750	P.V.	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,924.91	3,864.12	4,216.39	2,678.13	6,296.41	4,103.68	3,476.61
3,199.47	2,019.51	2,353.33	1,213.86	2,767.85	1,919.19	1,797.30
3,833.36	1,394.52	1,049.52	....	1,327.44	1,109.20	....
....	....	....	580.32	....	....	....
857.00	870.00	555.00	630.00	768.00	486.98	296.00
....	....	....	....	....	....	....
200.59	352.93	86.61	241.76	263.81	173.47	82.67
11,015.33	8,501.08	8,260.85	5,344.07	11,423.51	7,792.52	5,652.58
5,941.41	3,915.03	4,720.70	3,190.81	6,805.49	6,185.00	3,404.62
....	....	....	....	....	....	....
....	....	....	....	....	....	....
1,242.76	309.08	560.75	513.52	581.94	733.69	46.13
251.02	....	14.01	69.61	....	29.17	15.57
208.37	122.23	27.95	55.54	127.62	13.44	39.57
....	....	....	....	34.71	....	3.30
122.18	85.28	78.00	158.36	131.25	36.75	2.88
....	....	....	3.36	....	....	....
431.65	293.40	534.09	178.33	474.67	261.79	243.59
735.01	83.58	269.13	46.26	115.37	218.30	108.15
24.50	11.33	12.55	6.08	....	1.67	1.13
....	....	....	....	....	....	....
....	....	0.66	23.71	....	....	....
....	....	....	....	....	....	....
538.00	855.00	419.00	236.00	628.00	252.00	289.00
....	....	....	....	....	....	....
9,494.90	5,674.93	6,636.84	4,481.58	8,899.05	7,731.81	4,153.94
1,520.43	2,826.15	1,624.01	862.49	2,524.46	60.71	1,498.64
....	....	....	....	....	....	....
151	141	162	127	210	122	82
56	39	32	25	56	29	16
7	4	5	1	3	3	....
214	184	199	153	269	154	98

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population	2,410	1,473	P.V.	575	1,965
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	21,917.53	14,149.37	4,693.78	5,763.32	11,053.53
Commercial light service	18,576.55	5,930.46	1,445.87	3,438.26	10,484.55
Commercial power service	6,950.72	3,693.17	1,189.68	2,148.90	13,909.47
Municipal power	1,124.14	1,381.98			995.61
Street lighting	3,553.30	2,071.72	913.34	850.00	2,252.02
Merchandise	828.19	803.60			1,442.43
Miscellaneous	1,031.64	217.93	252.70	109.73	1,831.41
Total earnings	53,982.07	28,248.23	8,495.37	12,310.21	41,969.02
EXPENSES					
Cost of power supplied by H-E.P.C.	22,740.24	12,356.97	4,312.62	6,176.21	22,744.68
Substation operation		94.08			10.65
Substation maintenance					
Distribution system, operation and maintenance	2,487.60	1,900.79	109.89	691.25	3,507.27
Line transformer maintenance	178.42	44.89	0.24	206.60	248.89
Meter maintenance	1,065.05	273.27	279.59	246.72	800.70
Consumers' premises expenses	525.38		241.43		84.08
Street lighting, operation and maintenance	409.47	434.68	151.92	399.72	717.85
Promotion of business					
Billing and collecting	1,971.54	983.88	266.60	708.32	1,423.39
General office, salaries and expenses	2,260.52	2,007.72	163.71	226.11	1,541.72
Undistributed expenses	819.61	258.34	1.72	77.18	338.99
Truck operation and maintenance	1,476.25	575.05			1,839.35
Interest	2,026.92		5.12	4.15	15.53
Sinking fund and principal payments on debentures	4,130.92				
Depreciation	2,554.00	865.00	405.00	524.00	1,523.00
Other reserves					
Total operating costs and fixed charges	42,645.92	19,794.67	5,937.30	9,260.26	34,796.10
Net surplus	11,336.15	8,453.56	2,558.07	3,049.95	7,172.92
Net loss					
NUMBER OF CONSUMERS					
Domestic service	770	443	175	186	578
Commercial light service	223	59	33	54	147
Power service	22	13	2	7	19
Total	1,015	515	210	247	744

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Drumbo	Dublin	Dundalk	Dundas	Dunnville	Durham	Dutton
P.V.	P.V.	771	6,089	3,997	2,158	818
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,091.81	2,604.50	6,047.53	38,772.62	18,964.58	13,238.75	4,175.86
2,695.37	1,908.14	4,911.13	22,384.22	18,349.28	7,852.70	3,034.68
823.33	1,922.37	3,698.99	50,674.98	22,749.56	6,518.82	4,226.08
....	....	....	722.95	2,527.66	963.46	....
611.00	583.00	1,199.00	5,942.64	4,225.22	1,721.04	1,037.94
....	....	....	....	....	46.70	....
271.88	55.67	493.94	986.16	1,087.75	186.25	279.28
8,493.39	7,073.68	16,350.59	119,483.57	67,904.05	30,527.72	12,753.84
4,960.10	4,131.37	9,157.29	87,088.65	42,036.93	17,233.94	8,403.87
....	....	....	767.21	656.32	....	....
....	....	....	....	....	....	....
300.05	319.19	1,549.33	8,429.18	6,554.32	2,636.94	1,110.57
1.25	11.26	....	895.11	528.18	292.31	25.28
9.45	51.52	301.65	2,191.13	1,894.60	414.64	15.94
....	....	....	78.65	....	575.99	16.15
65.70	142.68	238.15	1,216.73	1,428.01	451.72	249.49
....	....	....	....	....	....	....
439.13	251.50	960.70	3,025.58	1,995.12	1,232.92	1,183.18
104.15	219.15	252.70	3,962.70	2,505.19	1,171.07	211.02
1.66	6.49	45.82	895.67	673.04	210.49	34.85
....	....	....	2,286.92	409.90	368.47	....
....	....	....	....	67.79	40.39	4.50
....	....	....	....	856.86	....	....
355.00	351.00	483.00	4,501.00	3,227.00	1,900.00	612.00
....	....	....	....	....	....	....
6,236.49	5,484.16	12,988.64	115,338.53	62,833.26	26,528.88	11,866.85
2,256.90	1,589.52	3,361.95	4,145.05	5,070.79	3,998.84	886.99
....	....	....	....	....	....	....
116	69	243	1,800	1,216	548	253
37	34	79	256	298	122	66
2	2	8	46	34	18	10
155	105	330	2,102	1,548	688	329

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	East York Twp. V.A.	Elmira 2,330	Elmvale P.V.	Elmwood P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	472,336.93	23,465.86	5,903.29	1,924.67
Commercial light service	50,808.75	14,887.23	3,803.68	1,444.55
Commercial power service	70,067.98	31,694.00	3,640.64	3,064.80
Municipal power	5,513.54	2,885.14	304.49	....
Street lighting	35,695.43	2,123.60	1,250.37	593.00
Merchandise	....	....	....	....
Miscellaneous	1,664.12	1,929.64	85.05	113.18
Total earnings	636,086.75	76,985.47	14,987.52	7,140.20
EXPENSES				
Cost of power supplied by H-E.P.C.	376,989.13	48,180.29	8,079.13	3,907.83
Substation operation	6,307.90	510.98	....	....
Substation maintenance	....	....	....	....
Distribution system, operation and maintenance	12,352.09	4,443.96	1,126.79	202.07
Line transformer maintenance	4,113.05	426.57	....	....
Meter maintenance	10,315.95	657.81	201.60	19.00
Consumers' premises expenses	14,241.54	184.88	28.55	....
Street lighting, operation and maintenance	8,387.88	194.55	168.78	83.01
Promotion of business	134.60	149.92	....	....
Billing and collecting	27,345.91	1,600.86	544.69	....
General office, salaries and expenses	22,945.88	2,042.40	301.99	421.60
Undistributed expenses	....	901.63	8.10	....
Truck operation and maintenance	....	505.49	....	....
Interest	1,503.73	112.91	....	....
Sinking fund and principal payments on debentures	....	1,091.74	....	....
Depreciation	35,519.00	4,422.00	960.00	267.00
Other reserves	....	....	....	....
Total operating costs and fixed charges	520,156.66	65,425.99	11,419.63	4,900.51
Net surplus	115,930.09	11,559.48	3,567.89	2,239.69
Net loss	....	....	....	....
NUMBER OF CONSUMERS				
Domestic service	15,099	678	223	97
Commercial light service	611	142	63	22
Power service	83	28	9	3
Total	15,793	848	295	122

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Elora 1,357	Embro 485	Erieau 341	Erie Beach 50	Essex 2,253	Etobicoke Twp. V.A.	Exeter 2,364
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
12,116.84	5,954.54	7,223.11	2,110.57	14,461.07	446,127.89	29,284.25
5,668.50	2,147.20	2,803.09	340.17	13,092.08	85,434.23	14,216.21
8,218.91	2,876.29	5,793.32	...	9,358.81	118,243.85	7,303.37
40.86	...	...	...	1,471.21	12,146.61	789.72
1,727.00	617.60	718.50	210.06	2,265.37	31,222.31	2,885.10
...	...	...	...	...	...	502.07
494.87	80.75	66.64	31.79	1,258.85	2,691.27	1,549.76
28,266.98	11,676.38	16,604.66	2,692.59	41,907.39	695,866.16	56,530.48
18,560.91	6,412.24	8,211.71	1,303.50	25,896.75	405,291.75	33,918.79
...	...	...	...	...	...	...
...	...	...	...	...	123.65	...
2,816.79	417.05	813.51	174.94	2,320.00	20,102.84	4,972.62
44.11	4.64	59.15	...	588.51	7,703.27	45.05
141.42	195.88	467.28	164.00	825.14	7,511.90	320.21
...	109.05	577.72	8.07	462.77	15,871.70	630.26
357.60	130.48	178.42	48.47	565.93	4,526.35	901.55
23.42	...	...	...	14.00	...	...
1,305.11	655.64	685.67	224.58	1,610.58	35,586.55	3,007.07
562.59	137.11	616.53	285.19	3,851.13	22,644.03	3,193.79
472.48	15.83	3.61	0.58	871.11	...	172.37
458.15	...	...	...	766.70	...	823.65
31.47	5.00	23.24	19.38	431.04	12,983.72	...
...	...	...	...	1,122.77	17,786.82	...
1,072.00	521.00	868.00	163.00	3,432.00	32,793.00	3,134.00
...	...	...	...	...	...	...
25,846.05	8,603.92	12,504.84	2,391.71	42,758.43	582,925.58	51,119.36
2,420.93	3,072.46	4,099.82	300.88	...	112,940.58	5,411.12
...	...	...	...	851.04	...	...
402	147	253	108	709	11,367	752
72	36	27	5	149	717	155
8	4	4	...	22	129	22
482	187	284	113	880	12,213	929

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Fergus	Finch	Flesherton	Fonthill	Forest
Population	3,195	390	447	1,182	1,709
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	30,035.50	3,897.88	3,431.53	12,671.59	19,717.69
Commercial light service	11,202.93	3,040.63	2,512.28	3,224.61	10,767.59
Commercial power service	26,151.08	2,060.41	1,332.01	1,323.48	5,498.88
Municipal power	1,075.23			189.38	1,277.36
Street lighting	2,368.72	507.00	730.00	1,748.60	2,798.20
Merchandise					389.13
Miscellaneous	557.33	195.98	304.92	32.12	1,153.27
Total earnings	71,390.79	9,701.90	8,310.74	19,189.78	41,602.12
EXPENSES					
Cost of power supplied by H-E.P.C.	51,165.53	5,365.01	4,342.45	9,887.87	25,773.48
Substation operation	59.04				
Substation maintenance					
Distribution system, operation and maintenance	4,036.30	209.74	473.69	2,065.71	5,364.03
Line transformer maintenance	808.31			56.62	83.38
Meter maintenance	800.33	155.36	206.05	232.75	186.08
Consumers' premises expenses	30.95			448.32	1,751.86
Street lighting, operation and maintenance	1,230.87	150.19	89.35	145.13	683.66
Promotion of business	13.61				
Billing and collecting	1,457.72	366.35		946.33	1,389.04
General office, salaries and expenses	2,039.04	153.00	609.75	851.49	2,665.90
Undistributed expenses	267.12			22.00	247.18
Truck operation and maintenance	931.45				157.04
Interest					
Sinking fund and principal payments on debentures					
Depreciation	3,687.00	517.00	337.00	1,133.00	1,605.00
Other reserves					
Total operating costs and fixed charges	66,527.27	6,916.65	6,058.29	15,789.22	39,906.65
Net surplus	4,863.52	2,785.25	2,252.45	3,400.56	1,695.47
Net loss					
NUMBER OF CONSUMERS					
Domestic service	923	134	147	375	575
Commercial light service	128	37	52	43	136
Power service	17	4	2	6	21
Total	1,068	175	201	424	732

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Forest Hill	*Frankford	Galt	Georgetown	Glencoe	Goderich
15,629	1,242	16,952	3,150	918	4,906
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
244,649.48	3,235.74	148,077.05	40,682.65	5,788.31	53,329.21
48,627.90	1,708.62	74,474.60	14,610.70	8,643.35	25,778.81
5,746.17	355.08	193,553.67	41,508.57	2,942.31	22,306.18
446.70	....	5,436.89	1,539.81	1,187.35	3,352.15
12,127.09	314.18	22,195.00	3,376.27	2,411.46	5,339.83
....	....	13,893.44	....	....	830.57
8,028.94	....	4,824.87	588.95	1,118.55	1,359.68
319,626.28	5,613.62	462,455.52	102,306.95	22,091.33	112,296.43
187,624.91	1,938.42	320,459.26	66,815.74	10,261.53	71,843.79
1,287.76	....	9,130.16	....	....	1,352.61
....	....	1,317.10	682.31	....	....
12,236.81	68.35	15,008.26	3,549.88	926.47	6,095.87
1,246.51	....	344.44	366.32	84.46	135.37
2,765.59	63.84	2,524.93	1,028.84	276.19	1,330.82
17,270.84	....	1,395.35	688.23	87.05	903.27
1,558.80	8.35	2,977.21	505.13	252.81	1,321.41
....	....	977.21	....	....	....
8,273.12	505.11	6,313.72	3,233.72	787.41	4,796.45
13,053.68	314.63	15,200.74	2,829.33	1,054.10	3,671.12
1,350.80	....	8,040.98	1,671.71	138.07	2,370.23
5,187.97	....	1,798.84	2,709.51	325.28	2,133.93
5,946.35	101.37	....	....	3.25	533.97
19,716.20	666.66	....	....	....	2,453.67
11,555.00	220.00	25,686.00	4,675.00	1,055.00	6,003.00
....	....	349.18	....	....	....
289,074.34	3,886.73	411,523.38	88,755.72	15,251.62	104,945.51
30,551.94	1,726.89	50,932.14	13,551.23	6,839.71	7,350.92
....	....	....	....	....	....
4,276	334	5,052	1,122	280	1,614
372	76	590	167	90	301
39	7	160	33	12	44
4,687	417	5,802	1,322	382	1,959

*4 Months operations.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Grand Valley	Granton	Gravenhurst	Grimsby
Population	649	P.V.	3,431	2,457
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	4,926.21	2,616.51	23,535.67	20,767.82
Commercial light service	3,271.74	1,350.03	13,973.18	13,896.28
Commercial power service	3,595.61	205.97	18,311.99	10,479.91
Municipal power	....	....	1,280.81	2,845.13
Street lighting	932.00	370.00	1,977.00	3,692.49
Merchandise	....	....	56.22	....
Miscellaneous	363.16	172.12	867.64	1,048.89
Total earnings	13,088.72	4,714.63	60,002.51	52,730.52
EXPENSES				
Cost of power supplied by H-E.P.C.	7,942.42	3,167.33	37,036.11	29,553.10
Substation operation	....	....	....	....
Substation maintenance	....	....	14.20	....
Distribution system, operation and maintenance	974.08	273.44	5,432.08	1,647.71
Line transformer maintenance	....	27.53	93.82	....
Meter maintenance	116.20	294.09	744.30	144.83
Consumers' premises expenses	....	15.66	13.68	760.09
Street lighting, operation and maintenance	118.03	76.42	277.13	588.26
Promotion of business	....	....	....	....
Billing and collecting	839.58	378.37	2,101.16	2,456.97
General office, salaries and expenses	349.54	156.78	1,786.16	1,892.28
Undistributed expenses	19.78	1.06	323.59	40.45
Truck operation and maintenance	....	....	770.49	....
Interest	....	....	....	....
Sinking fund and principal payments on debentures	....	....	....	....
Depreciation	659.00	377.00	2,148.00	2,592.00
Other reserves	....	....	....	....
Total operating costs and fixed charges	11,018.63	4,767.68	50,740.72	39,675.69
Net surplus	2,070.09	....	9,261.79	13,054.83
Net loss	....	53.05	....	....
NUMBER OF CONSUMERS				
Domestic service	213	90	919	819
Commercial light service	60	30	146	150
Power service	11	1	23	21
Total	284	121	1,088	990

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Guelph	Hagersville	Hamilton	Hanover	Harriston	Harrow	Hastings
25,962	1,624	181,623	3,646	1,449	1,343	803
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
191,764.24	9,638.41	1,207,375.88	36.629.56	12,811.62	19,441.32	7,533.12
69,730.95	8,448.47	631,368.43	12,664.02	8,188.99	9,397.87	5,208.45
179,019.34	25,354.24	3,222,547.95	33,171.99	12,481.44	4,383.09	233.07
18,002.21	154.11	102,548.97	283.45	445.25	....	....
22,936.14	2,245.05	146,757.65	2,535.00	1,577.81	1,506.22	1,697.69
....	....	23,592.13	....	231.19	77.98	....
387.19	1,267.95	159,913.98	2,526.39	439.98	352.09	217.78
481,840.07	47,108.23	5,494,104.99	87,810.41	36,176.28	35,158.57	14,890.11
373,744.89	34,323.04	*4,327,526.67	52,429.58	23,294.81	24,807.61	6,509.49
....	....	138,565.52	....	....	....	....
7,023.42	....	16,728.68	....	....	....	....
14,413.38	5,714.54	85,216.27	6,534.08	2,629.13	2,212.59	1,278.08
548.44	666.88	15,811.37	289.73	107.41	36.96	24.59
6,077.83	667.31	53,870.33	834.72	224.48	1,129.47	598.00
1,080.89	5.20	51,082.43	....	631.46	39.99	....
4,728.50	442.05	33,539.49	377.32	310.34	311.87	557.36
77.50	....	23,316.44	....	....	10.00	....
11,011.41	1,596.59	169,738.74	2,563.19	1,625.56	2,610.49	911.82
13,452.06	1,332.88	108,030.05	2,077.98	773.29	144.32	311.54
2,355.12	539.54	27,164.07	447.29	124.36	7.90	3.15
....	402.21	....	2,009.39	544.64	....	....
36.88	....	5,320.84	....	....	2.80	260.76
....	....	174,750.00	....	....	....	1,496.51
31,524.00	1,283.00	231,203.89	3,833.00	1,806.00	1,164.00	1,045.00
....	....	....	....	....	....	....
466,074.32	46,973.24	5,461,864.79	71,396.28	32,071.48	32,478.00	12,996.30
15,765.75	134.99	32,240.20	16,414.13	4,104.80	2,680.57	1,893.81
....	....	....	....	....	....	....
6,646	468	50,692	1,040	423	424	308
817	143	6,398	174	115	101	59
172	21	1,247	34	16	8	3
7,635	632	58,337	1,248	554	533	370

*Includes 1949 cost adjustment.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Havelock	Hensall	Hespeler	Highgate	Holstein
Population	1,166	677	3,614	340	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,384.21	7,326.06	28,597.39	2,350.36	1,551.92
Commercial light service	3,698.46	3,678.77	11,281.00	1,108.87	495.89
Commercial power service	1,862.73	5,213.77	82,413.71	2,186.66	615.85
Municipal power	....	645.85	2,172.74	....	....
Street lighting	1,569.00	1,072.47	4,281.00	476.50	75.00
Merchandise	....	....	....	....	....
Miscellaneous	659.20	394.25	2,371.73	260.92	150.00
Total earnings	15,173.60	18,331.17	131,117.57	6,383.31	2,888.66
EXPENSES					
Cost of power supplied by H-E.P.C.	8,264.41	11,351.98	91,036.26	3,982.44	1,557.06
Substation operation	....	....	1,426.35	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,301.83	999.75	7,953.72	241.82	110.03
Line transformer maintenance	....	25.13	249.88	5.49	....
Meter maintenance	722.29	65.60	327.19	232.11	....
Consumers' premises expenses	....	....	463.07	2.99	....
Street lighting, operation and maintenance	693.18	132.58	758.54	168.63	48.00
Promotion of business	....	....	....	....	....
Billing and collecting	1,107.54	666.17	1,840.15	324.14	....
General office, salaries and expenses	366.64	444.09	2,427.55	208.37	387.24
Undistributed expenses	....	48.37	1,423.51	6.35	....
Truck operation and maintenance	....	....	1,395.02	63.88	....
Interest	....	22.45	257.92	....	....
Sinking fund and principal payments on debentures	....	....	1,819.56	....	....
Depreciation	823.00	763.00	4,768.00	387.00	122.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	13,278.89	14,519.12	116,146.72	5,623.22	2,224.33
Net surplus	1,894.71	3,812.05	14,970.85	760.09	664.33
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	325	231	973	114	70
Commercial light service	65	62	114	32	16
Power service	2	18	32	7	2
Total	392	311	1,119	153	88

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Humberstone	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville
3,411	3,180	6,234	1,029	588	1,465
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
17,378.63	25,992.69	47,169.53	10,769.70	3,619.63	13,668.43
8,504.09	21,223.17	25,529.96	4,081.73	3,105.95	7,845.99
7,551.97	21,974.26	55,234.10	1,075.75	4,153.83	5,317.11
....	914.01	5,174.38	1,006.70	....	....
2,011.22	3,380.00	5,034.40	1,361.01	858.00	1,871.90
....	102.14	....	....	....	....
69.97	1,096.89	1,259.96	389.83	427.07	417.83
35,515.88	74,683.16	139,402.33	18,684.72	12,164.48	29,121.26
19,819.98	47,983.29	102,233.49	9,934.23	6,879.38	15,965.95
....	....	571.46	....	....	....
....	829.40	....	....	....	....
3,628.94	6,383.82	7,643.98	1,651.21	114.55	3,323.37
144.65	199.98	312.84	187.96	4.07	149.59
2,121.07	1,079.01	2,255.49	351.94	347.44	314.16
....	5.96	1,213.79	155.20	....	207.85
537.96	903.33	910.71	319.75	54.64	300.54
....	....	96.84	....	....	....
1,850.05	2,191.03	4,134.79	1,418.84	746.28	1,359.64
1,447.62	2,606.94	5,142.51	1,527.52	65.52	682.05
280.09	896.22	1,642.98	181.19	8.10	252.61
865.61	835.54	2,279.29	472.89	....	519.47
....	....	296.93	....	....	....
....	....	....	....	....	....
2,468.00	1,592.00	6,251.00	630.00	806.00	1,747.00
....	....	....	....	....	....
33,163.97	65,506.52	134,986.10	16,830.73	9,025.98	24,822.23
2,351.91	9,176.64	4,416.23	1,853.99	3,138.50	4,299.03
....	....	....	....	....	....
913	833	1,765	341	166	454
171	162	251	61	47	90
15	23	52	6	4	7
1,099	1,018	2,068	408	217	551

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Kincardine	Kingston	Kingsville	Kirkfield
Population	2,857	31,375	2,489	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	24,417.70	284,300.49	20,646.02	1,238.84
Commercial light service	12,276.83	161,934.92	13,636.94	1,559.70
Commercial power service	18,346.94	198,181.18	5,651.28	
Municipal power	1,455.48	16,991.98	953.63	
Street lighting	4,954.47	22,794.53	2,901.96	432.00
Merchandise	22.69			
Miscellaneous	685.48	13,836.61	1,658.74	90.00
Total earnings	62,159.59	698,039.71	45,448.57	3,320.54
EXPENSES				
Cost of power supplied by H-E.P.C.	36,620.27	488,002.05	26,513.42	1,788.51
Substation operation	1,215.48	15,845.79		
Substation maintenance		3,409.70		
Distribution system, operation and maintenance	2,173.43	27,338.20	3,485.77	259.57
Line transformer maintenance	161.62	979.95	437.81	
Meter maintenance	38.44	10,127.05	1,004.14	7.52
Consumers' premises expenses	1,011.99			
Street lighting, operation and maintenance	761.43	5,576.50	740.69	49.51
Promotion of business		791.01		
Billing and collecting	1,582.71	22,670.50	2,314.32	159.54
General office, salaries and expenses	1,229.21	33,715.87	2,473.52	74.61
Undistributed expenses	303.69	31,167.00	873.55	
Truck operation and maintenance	957.89	10,533.04	583.70	
Interest			749.21	
Sinking fund and principal payments on debentures			1,715.70	
Depreciation	3,716.00	31,538.44	1,948.00	228.00
Other reserves		6,268.36		
Total operating costs and fixed charges	49,772.16	687,963.46	42,839.83	2,567.26
Net surplus	12,387.43	10,076.25	2,608.74	753.28
Net loss				
NUMBER OF CONSUMERS				
Domestic service	855	9,466	806	46
Commercial light service	156	1,191	117	24
Power service	24	198	25	
Total	1,035	10,855	948	70

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Kitchener	Lakefield	Lambeth	Lanark	Lancaster	La Salle	Leamington
40,640	1,667	P.V.	731	550	1,526	7,221
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
350,619.81	13,486.58	5,763.19	5,562.96	2,794.90	19,227.85	42,469.07
182,499.33	9,356.59	1,506.88	4,086.18	1,941.62	5,684.55	27,565.89
560,304.08	7,998.22	667.90	1,729.55	....	780.79	34,685.60
40,947.42	....	508.07	....	....	....	2,613.71
39,546.60	1,895.80	763.00	702.00	530.00	924.00	8,364.95
....	....	....	....	....	....	....
4,210.44	842.31	20.80	15.06	60.33	9.98	822.20
1,178,127.68	33,579.50	9,229.84	12,095.75	5,326.85	26,627.17	116,521.42
813,949.89	17,749.50	6,479.92	6,227.02	3,119.27	16,579.69	81,819.70
17,104.66	....	....	....	....	....	968.50
8,149.88	....	....	....	....	....	....
32,112.80	1,456.89	855.45	365.39	432.77	1,329.35	1,968.90
4,987.07	....	177.65	....	....	362.01	1,729.97
15,712.09	193.95	288.85	65.41	76.87	672.00	1,007.56
2,843.30	....	21.23	....	....	433.21	9.16
49,193.46	315.69	124.60	99.56	88.02	112.46	2,743.21
739.72	....	....	....	....	7.61	108.95
22,627.23	1,946.98	635.56	457.68	240.08	1,172.90	5,250.37
33,142.59	1,733.72	68.00	185.72	271.38	498.25	4,854.94
997.63	159.96	2.36	....	....	37.27	1,518.63
....	829.51	....	....	....	....	2,641.98
2,196.02	303.59	45.29	....	....	536.34	....
24,900.00	2,261.77	....	....	....	....	....
65,728.00	1,194.00	753.00	592.00	471.00	1,833.00	7,430.00
....	....	....	....	....	....	....
1,094,384.34	28,145.56	9,451.91	7,992.78	4,699.39	23,574.09	112,051.87
83,743.34	5,433.94	....	4,102.97	627.46	3,053.08	4,469.55
....	....	222.07	....	....	....	....
10,518	462	188	224	135	413	2,033
1,298	92	28	52	34	28	366
348	12	7	3	....	3	51
12,164	566	223	279	169	444	2,450

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Lindsay	Listowel	London	London Twp. V.A.	Long Branch
Population	8,904	2,929	91,021		6,677
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	82,332.12	29,411.10	728,497.57	24,333.48	60,971.95
Commercial light service	50,602.01	18,283.62	294,301.65	2,991.49	14,808.44
Commercial power service	44,142.20	21,318.94	501,353.30	1,417.46	27,450.56
Municipal power	2,892.77	1,304.51	96,738.66	....	2,355.25
Street lighting	7,732.84	4,782.20	49,652.70	1,335.50	7,389.88
Merchandise	878.24	50.96	16,526.88	....	....
Miscellaneous	873.14	842.31	30,867.61	246.42	1,965.87
Total earnings	189,453.32	75,993.64	1,717,938.37	30,324.35	114,941.95
EXPENSES					
Cost of power supplied by H-E.P.C.	119,587.12	54,597.23	1,070,962.25	19,485.71	63,248.47
Substation operation	....	792.42	64,623.81	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	4,080.64	2,848.95	38,042.99	2,264.39	4,185.48
Line transformer maintenance	1,558.86	323.88	9,909.84	356.44	1,023.56
Meter maintenance	2,261.37	460.53	43,696.15	643.43	621.50
Consumers' premises expenses	923.40	29.45	97,474.24	404.33	334.33
Street lighting, operation and maintenance	929.44	830.63	17,570.59	314.95	967.32
Promotion of business	79.63	....	1,434.37	....	....
Billing and collecting	6,565.23	2,773.79	43,729.03	1,695.04	7,887.53
General office, salaries and expenses	11,824.36	2,177.25	93,391.35	679.67	5,259.17
Undistributed expenses	4,669.58	338.20	1,423.59	16.94	33.33
Truck operation and maintenance	2,873.55	385.22	3,628.90	....	....
Interest	....	....	7,420.64	22.23	....
Sinking fund and principal payments on debentures	....	....	....	....	....
Depreciation	9,085.00	3,312.00	105,419.30	1,073.00	4,891.00
Other reserves	....	....	15,081.93	....	....
Total operating costs and fixed charges	164,438.18	68,869.55	1,613,808.98	26,956.13	88,451.69
Net surplus	25,015.14	7,124.09	104,129.39	3,368.22	26,490.26
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	2,617	972	23,822	671	2,121
Commercial light service	403	192	2,402	19	211
Power service	82	34	488	4	23
Total	3,102	1,198	26,712	694	2,355

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Lucan 850	Lucknow 963	Lynden P.V.	Madoc 1,169	Markdale 839	Markham 1,389	Marmora 1,005
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,238.45	8,234.81	4,216.27	9,491.86	5,780.37	14,457.20	7,222.00
3,402.68	4,883.91	859.60	6,913.24	4,485.96	5,702.76	3,769.31
1,078.63	10,936.12	1,380.35	3,946.39	2,954.55	3,409.51	604.28
....	394.65	....	....	211.68	390.73	....
1,433.16	2,011.35	474.80	1,872.00	959.00	1,663.00	1,298.00
....	....	....	....	....	....	....
198.96	653.64	137.37	233.04	186.96	542.25	270.62
15,351.88	27,114.48	7,068.39	22,456.53	14,578.52	26,165.45	13,164.21
9,180.26	15,774.97	4,848.99	14,354.20	7,733.85	14,476.18	6,074.14
....	....	....	....	....	....	....
....	....	....	....	....	....	....
544.57	2,124.49	386.72	2,159.37	950.31	1,226.01	1,878.71
13.84	....	5.00	1.75	....	208.29	....
118.48	245.27	99.44	922.56	325.96	398.51	365.08
682.02	....	....	....	268.97	....	....
282.43	281.75	94.73	615.78	127.83	249.73	352.43
....	....	....	....	....	....	....
956.03	1,522.04	260.99	1,244.10	....	1,229.55	1,128.75
392.63	912.48	268.38	407.16	930.08	444.90	639.95
59.90	117.76	35.25	12.36	12.07	66.58	96.53
....	374.71	....	....	....	....	....
67.46	34.52	....	....	26.99	....	....
....	....	....	....	....	....	....
1,092.00	1,264.00	535.00	885.00	1,092.00	1,532.00	824.00
....	....	....	....	....	....	....
13,389.62	22,651.99	6,534.50	20,602.28	11,468.06	19,831.75	11,359.59
1,962.26	4,462.49	533.89	1,854.25	3,110.46	6,333.70	1,804.62
....	....	....	....	....	....	....
238	360	121	367	250	425	295
51	109	15	100	79	83	50
4	12	3	6	10	11	1
293	481	139	473	339	519	346

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Martin-town P.V.	Maxville 812	Meaford 2,923	Merlin P.V.	Merritton 3,868
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	1,693.55	5,141.50	24,369.60	2,964.46	30,267.40
Commercial light service	1,516.76	3,328.40	15,090.17	2,776.38	7,380.60
Commercial power service	108.73	....	17,183.25	1,825.47	240,603.60
Municipal power	....	....	1,091.17	....	2,053.82
Street lighting	253.00	1,076.50	3,492.56	819.00	4,571.04
Merchandise	....	....	109.95	11.57	....
Miscellaneous	96.48	296.00	1,247.90	1,033.34	3,648.17
Total earnings	3,668.52	9,842.40	62,584.60	9,430.22	288,524.63
EXPENSES					
Cost of power supplied by H-E.P.C.	1,863.57	5,458.98	36,026.26	4,733.94	249,321.65
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	1,226.22
Distribution system, operation and maintenance	290.97	818.22	4,110.25	455.77	7,141.86
Line transformer maintenance	....	179.82	427.28	14.02	387.71
Meter maintenance	100.72	327.80	834.68	632.95	1,194.14
Consumers' premises expenses	....	....	214.74	79.09	142.36
Street lighting, operation and maintenance	55.00	410.75	568.74	121.82	1,194.17
Promotion of business	....	....	....	14.00	....
Billing and collecting	358.44	366.45	1,770.25	396.55	4,234.44
General office, salaries and expenses	84.44	96.40	1,578.78	592.25	5,209.57
Undistributed expenses	....	41.06	470.32	1.83	2,767.72
Truck operation and maintenance	....	....	539.97	....	1,064.67
Interest	....	....	....	28.27	....
Sinking fund and principal payments on debentures	....	....	....	....	....
Depreciation	129.00	480.00	2,810.00	1,012.00	6,580.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	2,882.14	8,179.48	49,351.27	8,082.49	280,464.51
Net surplus	786.38	1,662.92	13,233.33	1,347.73	8,060.12
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	69	206	927	149	1,214
Commercial light service	27	51	187	63	83
Power service	1	....	26	4	22
Total	97	257	1,140	216	1,319

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Midland 7,078	Mildmay 804	Millbrook 771	Milton 2,316	Milverton 1,060	Mimico 10,164	Mitchell 1,799
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
56,577.94	6,460.64	7,852.74	22,394.35	8,673.51	90,844.13	21,454.16
24,338.33	4,047.60	3,583.78	10,865.11	5,807.96	20,198.62	9,976.65
84,101.87	1,648.97	1,157.53	37,470.84	5,374.83	16,818.39	11,090.32
3,040.77	237.09	....	....	394.95	7,204.02	1,468.43
6,560.00	693.85	941.92	2,310.52	947.40	8,757.45	2,670.50
4,474.97	....	....	86.13	....	....	2,141.03
7,476.18	144.65	122.78	1,465.46	154.95	3,123.05	1,455.60
186,570.06	13,232.80	13,658.75	74,592.41	21,353.60	146,945.66	50,256.69
112,312.57	7,106.11	6,441.31	48,992.60	15,351.79	86,401.94	30,735.36
4,325.70	....	....	....	....	....	1,218.93
206.93	....	....	241.83	....	769.81	....
6,241.78	1,145.73	1,083.03	5,054.57	1,374.70	13,165.43	2,366.15
1,484.89	....	233.06	69.45	88.00	151.97	249.37
1,040.11	142.77	389.98	150.06	419.21	1,347.59	1,041.64
161.30	13.68	....	401.06	118.91	1,484.46	1,637.59
1,907.67	235.45	397.87	677.43	111.39	1,900.39	910.93
83.75	....	....	134.97	....	....	....
2,530.01	....	1,218.57	2,534.54	1,024.26	3,904.49	1,439.10
3,021.96	914.77	1,104.12	2,183.20	710.40	6,366.73	1,698.64
4,670.43	....	3.00	638.53	72.13	2,396.60	1,749.96
770.94	....	....	1,311.13	450.05	1,447.76	745.09
....	193.10	....	....	69.23	149.60	17.56
....	891.17	....	....	....	....	....
10,745.00	674.00	405.00	4,464.00	1,151.00	11,563.00	2,628.00
....	....	....	....	....	....	....
149,503.04	11,316.78	11,275.94	66,853.37	20,941.07	131,049.77	46,438.32
37,067.02	1,916.02	2,382.81	7,739.04	412.53	15,895.89	3,818.37
....	....	....	....	....	....	....
1,980	226	223	660	302	2,640	598
248	66	63	124	82	215	144
66	7	5	21	14	40	28
2,294	299	291	805	398	2,895	770

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Moorefield P.V.	Morrisburg 1,825	Mount Brydges P.V.	Mount Forest 1,928	Napanee 3,554
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,033.02	15,739.76	4,105.78	16,235.83	38,944.48
Commercial light service	1,688.42	11,667.42	1,303.37	11,862.22	27,221.09
Commercial power service	1,500.37	7,360.07	1,137.77	8,579.53	16,021.00
Municipal power		1,050.50		1,002.95	779.09
Street lighting	350.00	3,142.25	872.00	2,275.92	4,105.44
Merchandise				3.64	4,741.99
Miscellaneous	21.17	462.49	406.25	490.58	426.54
Total earnings	5,592.98	39,422.49	7,825.17	40,450.67	92,239.63
EXPENSES					
Cost of power supplied by H-E.P.C.	3,702.72	15,554.60	3,902.97	24,039.56	48,193.20
Substation operation		3,846.21			
Substation maintenance					
Distribution system, operation and maintenance	154.43	2,449.80	213.72	2,196.32	1,959.90
Line transformer maintenance	5.64	162.66	38.79		121.64
Meter maintenance	108.80	457.35	37.91	279.04	1,050.47
Consumers' premises expenses		90.00	41.47		1,537.35
Street lighting, operation and maintenance	70.00	519.44	36.05	483.99	949.57
Promotion of business					
Billing and collecting	222.25	2,082.96	664.71	1,148.40	2,972.85
General office, salaries and expenses	81.26	802.93	78.44	442.96	9,572.04
Undistributed expenses	6.21	403.34	1.66	161.43	3,922.64
Truck operation and maintenance		524.20		184.43	229.59
Interest				0.75	631.56
Sinking fund and principal payments on debentures					
Depreciation	201.00	1,243.00	394.00	1,350.00	3,753.00
Other reserves					
Total operating costs and fixed charges	4,552.31	28,136.49	5,409.72	30,286.88	74,893.81
Net surplus	1,040.67	11,286.00	2,415.45	10,163.79	17,345.82
Net loss					
NUMBER OF CONSUMERS					
Domestic service	80	508	206	584	1,081
Commercial light service	28	143	48	157	241
Power service	1	27	6	18	30
Total	109	678	260	759	1,352

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Neustadt	Newboro	*Newburgh	Newbury	Newcastle	New Hamburg
444	332	500	292	782	1,602
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,132.34	2,795.66	1,682.51	2,321.75	8,122.25	15,377.05
1,645.65	1,828.89	603.81	1,508.96	3,801.00	7,811.92
1,139.97	....	300.82	196.67	5,371.39	10,431.91
....	....	....	....	....	....
663.00	759.96	206.25	720.00	1,156.34	1,780.20
....	....	....	....	....	420.18
449.80	....	....	205.64	319.28	417.99
7,030.76	5,384.51	2,793.39	4,953.02	18,770.26	36,239.25
3,235.17	1,714.84	1,205.94	2,888.40	10,006.91	25,983.95
....	....	....	....	....	291.82
....	....	....	....	....	....
262.79	129.98	303.34	516.20	836.45	1,865.11
....	....	149.21	....	62.21	122.68
59.54	8.81	33.70	146.46	510.86	414.45
....	....	....	....	225.30	536.67
95.10	20.45	38.30	107.97	343.35	284.46
....	....	....	....	36.00	....
604.04	325.84	260.32	205.93	739.76	1,341.70
348.75	127.42	189.72	122.18	799.00	1,405.33
27.57	....	....	10.07	170.10	497.57
....	....	....	....	600.88	711.42
....	510.00	233.34	....	....	3.25
....	632.67	291.66	....	....	....
552.00	351.00	260.00	335.00	696.00	2,078.00
....	....	....	....	....	....
5,184.96	3,821.01	2,965.53	4,332.21	15,026.82	35,536.41
1,845.80	1,563.50	....	620.81	3,743.44	702.84
....	....	172.14	....	....	....
142	76	117	89	269	440
30	19	24	23	44	114
3	....	3	1	9	15
175	95	144	113	322	569

*6 months operation

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	New-market 4,521	New Toronto 9,156	Niagara 1,727	Niagara Falls 21,674	North York Twp. V.A.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	44,736.09	70,176.62	28,605.80	147,450.40	579,010.52
Commercial light service	21,320.87	29,368.31	8,903.44	88,033.15	87,348.93
Commercial power service	26,193.07	244,985.31	1,781.45	114,283.48	124,344.02
Municipal power	2,288.50	12,721.25	933.85	15,999.03	11,902.92
Street lighting	6,280.50	7,672.96	3,963.44	33,497.25	24,924.43
Merchandise	....	....	2,233.06	....	....
Miscellaneous	240.14	6,531.32	197.14	5,480.96	3,599.05
Total earnings	101,059.17	371,455.77	46,618.18	404,744.27	831,129.87
EXPENSES					
Cost of power supplied by H-E.P.C.	65,074.98	305,834.26	24,032.02	224,800.67	496,002.30
Substation operation	....	....	....	15,430.42	2,276.68
Substation maintenance	72.31	....	141.06	....	....
Distribution system, operation and maintenance	4,468.71	16,106.78	2,660.19	18,482.99	35,885.86
Line transformer maintenance	987.26	757.55	274.34	1,081.76	7,333.68
Meter maintenance	917.94	3,865.63	801.16	10,119.44	9,180.71
Consumers' premises expenses	13.80	178.50	46.44	10,906.12	3,944.68
Street lighting, operation and maintenance	1,315.65	2,322.95	938.67	7,659.59	3,555.58
Promotion of business	....	....	....	....	....
Billing and collecting	4,172.36	5,819.76	1,840.57	15,059.09	38,931.40
General office, salaries and expenses	3,967.83	14,343.41	2,076.13	18,884.66	23,113.02
Undistributed expenses	470.20	....	1,069.95	10,805.38	....
Truck operation and maintenance	2,053.46	....	991.37	3,182.71	....
Interest	84.12	....	339.26	559.51	32,059.14
Sinking fund and principal payments on debentures	1,000.00	....	2,786.25	5,458.68	34,289.96
Depreciation	4,914.00	10,467.00	3,669.00	23,942.00	47,978.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	89,512.62	359,695.84	41,666.41	366,373.02	734,551.01
Net surplus	11,546.55	11,759.93	4,951.77	38,371.25	96,578.86
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	1,351	2,338	783	5,657	17,520
Commercial light service	216	288	110	901	816
Power service	44	56	14	130	134
Total	1,611	2,682	907	6,688	18,470

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Norwich	Norwood	Oakville	Oil Springs	Omemee	Orangeville
1,369	873	5,346	426	611	3,073
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
13,758.12	8,235.25	46,793.54	2,752.35	5,179.21	27,069.18
7,157.58	4,981.34	37,283.78	1,602.83	2,354.85	18,981.17
1,806.70	3,251.78	57,274.59	5,464.24	4,960.89	7,534.08
524.23	....	8,741.55	185.44	....	1,089.78
2,158.00	1,542.00	4,849.84	620.52	1,036.12	4,333.81
1,679.90	....	....	9.29	....	174.63
421.52	685.92	1,778.43	593.61	245.81	1,169.62
27,506.05	18,696.29	156,721.73	11,228.28	13,776.88	60,352.27
15,885.23	7,799.36	88,725.63	6,592.25	5,666.28	33,151.39
....	....	....	....	....	....
....	....	285.52	....	....	....
3,802.74	993.45	4,340.86	422.94	476.65	2,504.79
111.38	1.33	504.70	11.31	59.05	136.46
298.99	324.30	1,078.84	150.19	201.61	728.63
504.78	....	400.96	26.10	....	....
340.86	690.50	1,837.82	29.56	244.63	664.87
....	....	....	....	....	....
1,085.97	946.50	5,077.27	786.33	570.94	2,406.30
1,458.69	242.71	7,797.95	966.43	235.15	981.09
189.69	....	307.00	2.57	91.98	189.16
91.26	....	1,803.54	....	....	641.20
31.07	264.53	....	....	....	....
....	2,140.15	....	....	....	....
810.00	1,013.00	5,492.00	875.00	798.00	3,370.00
....	....	....	....	....	....
24,610.66	14,415.83	117,652.09	9,862.68	8,344.29	44,773.89
2,895.39	4,280.46	39,069.64	1,365.60	5,432.59	15,578.38
....	....	....	....	....	....
462	270	1,683	125	205	863
102	78	244	39	37	206
9	4	66	33	9	35
573	352	1,993	197	251	1,104

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Orono	Oshawa	Ottawa	Otterville	Owen Sound
Population	P.V.	28,037	161,455	P.V.	16,503
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,361.21	326,652.87	787,031.82	4,894.36	132,206.17
Commercial light service	2,764.27	109,848.14	373,257.18	2,946.87	71,933.13
Commercial power service	146.96	420,089.17	95,804.62	548.01	105,244.54
Municipal power	....	12,454.95	33,679.05	93.96	....
Street lighting	1,065.00	22,870.05	89,244.34	934.00	12,235.64
Merchandise	....	....	....	....	....
Miscellaneous	176.61	30,702.31	16,003.49	219.35	2,735.39
Total earnings	11,514.05	922,617.49	1,395,020.50	9,636.55	324,354.87
EXPENSES					
Cost of power supplied by H-E.P.C.	4,583.51	608,752.81	811,754.91	5,250.16	219,552.67
Substation operation	....	3,098.85	48,011.64	....	6,833.07
Substation maintenance	....	....	1,953.85	....	....
Distribution system, operation and maintenance	438.26	37,074.82	51,461.51	456.48	7,749.95
Line transformer maintenance	10.20	567.39	8,780.78	17.10	1,970.78
Meter maintenance	179.81	9,043.51	17,634.78	462.95	5,734.53
Consumers' premises expenses	17.14	6,303.57	3,781.40	104.83	4,661.16
Street lighting, operation and maintenance	164.18	5,148.25	46,147.79	134.12	3,726.10
Promotion of business	3.50	979.77	3,774.82	....	258.52
Billing and collecting	795.61	18,042.02	55,496.01	366.85	16,654.41
General office, salaries and expenses	705.25	28,937.65	38,561.12	352.15	12,873.61
Undistributed expenses	51.25	13,276.07	18,827.84	7.13	3,784.94
Truck operation and maintenance	....	6,398.31	8,184.42	....	....
Interest	....	....	3,550.45	....	190.28
Sinking fund and principal payments on debentures	....	....	15,551.44	....	....
Depreciation	449.00	28,390.00	158,958.00	535.00	15,377.00
Other reserves	....	436.50	6,151.52	....	....
Total operating costs and fixed charges	7,397.71	766,449.52	1,298,582.28	7,686.77	299,367.02
Net surplus	4,116.34	156,167.97	96,438.22	1,949.78	24,987.85
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	219	7,909	17,402	186	4,405
Commercial light service	53	873	1,813	62	658
Power service	3	147	237	8	123
Total	275	8,929	19,452	256	5,186

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Paisley 725	Palmerston 1,499	Paris 4,980	Parkhill 1,003	Parry Sound 4,627	Penetanguishene 4,498	Perth 4,666
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,067.68	16,730.75	37,284.48	10,879.95	40,981.85	22,023.06	42,286.87
4,294.01	8,260.32	12,537.22	6,390.81	27,965.74	12,104.49	23,519.44
2,111.88	8,724.82	29,727.69	4,272.27	7,460.10	24,397.94	21,500.23
136.40	1,428.59	867.95	593.97	3,102.48	1,997.44	1,170.07
1,402.00	2,648.40	6,206.75	2,004.00	7,714.08	2,692.85	3,486.64
....	105.77	....	....	237.81	56.65	4,461.78
187.13	528.21	1,228.80	87.49	5,821.40	1,398.43	3,664.44
15,199.10	38,426.86	87,852.89	24,228.49	93,283.46	64,670.86	100,089.47
7,766.06	20,897.50	55,769.20	14,168.22	17,862.56	35,034.13	53,987.77
....	....	862.76	....	11,246.05	277.56	181.57
....	....	....	....	432.16	....	....
1,199.41	1,653.22	3,870.34	3,053.28	4,854.82	5,779.74	5,216.19
....	330.56	279.98	41.00	297.11	348.60	281.24
79.49	613.09	1,137.53	125.75	1,833.28	776.87	1,178.94
....	362.98	168.36	367.35	....	38.01	102.21
250.29	511.53	2,519.72	392.96	680.80	393.66	856.43
....	3.73	....	....	....	....	111.53
....	1,466.43	3,037.35	1,126.58	3,691.33	2,305.49	3,476.73
1,298.33	1,162.22	2,205.53	142.19	7,821.06	1,773.78	4,276.59
48.08	157.18	1,165.19	59.10	2,525.40	296.53	484.02
....	234.49	1,041.39	161.25	1,636.91	756.20	2,110.50
1.05	....	12.15	37.80	1,650.25	....	733.85
....	....	....	....	21,547.47	....	3,623.24
966.00	2,462.00	4,853.00	1,482.00	8,899.00	3,168.00	4,080.00
....	....	....	....	....	....	....
11,608.71	29,854.93	76,922.50	21,157.48	84,978.20	50,948.57	80,700.81
3,590.39	8,571.93	10,930.39	3,071.01	8,305.26	13,722.29	19,388.66
....	....	....	....	....	....	....
245	457	1,321	343	1,389	982	1,317
62	110	202	94	272	136	237
6	20	31	12	21	23	35
313	587	1,554	449	1,682	1,141	1,589

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Peterborough	Petrolia	Picton	Plattsville	Point Edward
Population	34,948	3,027	3,915	P.V.	1,670
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	300,931.73	18,426.08	37,662.01	4,417.63	11,826.53
Commercial light service	128,616.91	12,777.70	26,418.99	2,563.24	4,271.90
Commercial power service	290,698.66	24,481.38	11,433.39	3,880.52	69,057.51
Municipal power	6,741.35	....	3,089.32	....	129.21
Street lighting	28,475.29	3,192.00	3,897.54	408.00	2,143.98
Merchandise	....	....	210.47	....	1,141.82
Miscellaneous	6,305.57	1,413.69	1,056.79	314.31	1,275.60
Total earnings	761,769.51	60,290.85	83,768.51	11,583.70	89,846.55
EXPENSES					
Cost of power supplied by H-E.P.C.	492,974.26	30,363.22	56,447.47	9,246.13	75,430.00
Substation operation	13,523.19	250.46	11.98	....	....
Substation maintenance	1,873.90	....	....	....	....
Distribution system, operation and maintenance	26,401.59	4,652.61	1,407.46	330.42	1,029.08
Line transformer maintenance	2,138.42	317.16	134.74	57.84	34.16
Meter maintenance	20,750.29	2,084.10	1,112.04	69.95	595.81
Consumers' premises expenses	7,928.76	2,177.81	91.78	....	827.92
Street lighting, operation and maintenance	10,299.49	764.65	677.10	32.25	473.19
Promotion of business	108.75	54.80	....	....	40.88
Billing and collecting	19,291.19	1,629.48	3,036.37	296.56	1,967.75
General office, salaries and expenses	13,781.11	4,174.54	4,248.35	58.45	3,233.68
Undistributed expenses	18,116.19	951.80	516.41	7.43	41.94
Truck operation and maintenance	11,833.08	1,825.88	838.99	....	....
Interest	540.00	....	....	2.16	44.79
Sinking fund and principal payments on debentures	6,000.00	....	....	....	....
Depreciation	43,930.00	5,763.00	4,740.00	494.00	1,201.00
Other reserves	300.00	....	....	....	....
Total operating costs and fixed charges	689,790.22	55,009.51	73,262.69	10,595.19	84,920.20
Net surplus	71,979.29	5,281.34	10,505.82	988.51	4,926.35
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	9,189	877	1,265	129	431
Commercial light service	1,248	194	275	30	57
Power service	206	63	51	2	15
Total	10,643	1,134	1,591	161	503

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Port Colborne	Port Credit	Port Dalhousie	Port Dover	Port Elgin	Port Hope
7,613	2,696	2,348	2,201	2,486	5,724
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
39,132.21	30,856.97	30,824.73	16,962.84	20,627.21	58,751.97
26,491.66	11,486.66	6,860.63	10,113.55	11,496.53	24,011.13
18,034.60	8,449.94	8,970.13	9,456.90	4,174.08	60,029.43
6,494.21	1,334.22	....	....	901.14	1,861.61
9,173.63	3,275.66	1,922.00	3,280.97	3,083.94	4,748.72
....	....	....	....	25.00	108.83
3,477.45	110.18	2.03	88.38	238.97	1,164.31
102,803.76	55,513.63	48,579.52	39,902.64	40,546.87	150,676.00
51,535.59	35,292.71	28,665.18	23,257.37	25,709.67	103,642.46
....	....	....	....	....	37.40
....	....	....	....	....	....
10,075.10	2,970.18	6,664.73	3,513.01	1,904.75	3,731.84
1,144.24	256.31	170.52	123.93	186.34	261.08
3,309.39	978.76	353.62	479.83	174.66	1,570.78
793.28	1,156.74	328.20	.75	522.92	1,123.12
3,508.13	848.10	446.62	318.06	496.59	1,961.79
....	....	....	....	....	....
5,691.53	1,932.79	2,271.88	896.04	1,075.51	5,022.81
3,934.58	1,052.69	2,000.25	1,444.27	479.73	6,473.08
2,454.76	293.52	546.71	195.34	108.02	3,129.33
2,225.81	849.30	582.92	562.03	1,511.36	2,323.14
186.49	356.39	....	4.82	316.82	....
1,819.58	862.31	....	....	3,056.90	....
6,515.00	3,414.00	2,162.00	3,109.00	1,792.00	6,086.00
....	....	....	....	....	....
93,193.48	50,263.80	44,192.63	33,904.45	37,335.27	135,362.83
9,610.28	5,249.83	4,386.89	5,998.19	3,211.60	15,313.17
....	....	....	....	....	....
1,797	836	816	939	631	1,800
274	123	79	163	148	244
32	17	14	22	11	47
2,103	976	909	1,124	790	2,091

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Port McNicoll 890	Port Perry 1,435	Port Rowan 718	Port Stanley 996	Prescott 3,413
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,882.41	16,290.60	4,336.87	23,649.04	30,642.22
Commercial light service	1,705.15	7,942.95	4,419.55	8,874.83	15,763.29
Commercial power service	....	3,652.61	115.82	14,498.19	11,053.63
Municipal power	666.22	275.92	....	997.17	1,512.57
Street lighting	1,040.00	1,807.41	782.92	2,730.75	3,760.78
Merchandise	14.11	....	....	....	....
Miscellaneous	330.64	475.23	70.68	443.08	970.76
Total earnings	9,638.53	30,444.72	9,725.84	51,193.06	63,703.25
EXPENSES					
Cost of power supplied by H-E.P.C.	3,611.15	14,660.44	5,823.58	33,538.14	38,647.33
Substation operation	....	....	....	....	2,691.32
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	721.75	1,638.40	450.78	1,919.24	5,033.77
Line transformer maintenance	....	38.65	61.70	42.25	226.68
Meter maintenance	46.65	299.54	94.48	2,232.57	414.82
Consumers' premises expenses	....	1,039.10	....	....	1,021.01
Street lighting, operation and maintenance	136.07	294.64	113.44	290.39	864.33
Promotion of business	....	....	....	....	....
Billing and collecting	783.46	1,190.02	463.86	2,239.87	2,554.81
General office, salaries and expenses	430.69	868.18	164.73	1,263.74	4,973.26
Undistributed expenses	67.74	14.44	18.57	547.39	681.15
Truck operation and maintenance	....	....	....	578.68	647.54
Interest	109.28	....	....	91.64	....
Sinking fund and principal payments on debentures	200.00	....	....	....	....
Depreciation	760.00	1,517.00	773.00	2,744.00	3,060.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	6,866.79	21,560.41	7,964.14	45,487.91	60,816.02
Net surplus	2,771.74	8,884.31	1,761.70	5,705.15	2,887.23
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	308	460	222	1,006	882
Commercial light service	24	91	73	126	169
Power service	1	12	2	13	27
Total	333	563	297	1,145	1,078

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Preston 7,239	Priceville P.V.	Princeton P.V.	Queenston P.V.	Renfrew 6,434	Richmond 523	Richmond Hill 1,751
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
56,047.03	1,015.59	3,809.50	4,021.62	50,119.01	4,489.00	20,355.54
24,685.04	362.33	1,175.89	2,450.03	22,434.55	1,875.08	6,596.94
68,541.26	261.36	2,721.65	....	52,582.37	....	2,446.92
1,394.93	....	....	....	....	....	510.36
7,894.02	53.00	566.00	576.00	6,648.00	506.25	1,497.34
....	....	....	....	....	....	....
1,113.16	32.60	232.78	227.58	11,239.70	....	261.02
159,675.44	1,724.88	8,505.82	7,275.23	143,023.63	6,870.33	31,668.12
119,608.42	820.36	6,290.34	3,921.61	32,924.07	4,536.36	21,184.61
4,157.70	....	....	....	29,128.70	....	....
1,289.60	....	....	....	1,783.08	....	....
2,779.30	200.24	168.92	505.72	7,386.36	75.70	1,547.62
314.96	....	31.50	....	595.63	....	78.13
1,277.56	20.75	71.83	171.74	1,071.79	16.97	211.33
1,474.24	....	....	251.12	18.80	....	63.47
1,871.36	21.45	83.50	27.28	714.29	46.48	342.57
....	....	....	....	....	....	....
2,685.64	....	260.95	258.45	4,389.02	264.80	1,703.00
4,387.87	479.26	59.47	278.42	7,980.00	125.49	380.88
1,406.64	....	2.01	5.00	7,368.29	....	6.37
1,603.42	....	....	....	680.96	....	....
119.73	87.95	....	2.76	2,024.00	....	....
1,455.65	....	....	114.52	9,260.60	....	....
8,026.00	398.00	240.00	366.00	11,470.00	402.00	1,357.00
....	....	....	....	....	....	....
152,458.09	2,028.01	7,208.52	5,902.62	116,795.59	5,467.80	26,874.98
7,217.35	....	1,297.30	1,372.61	26,228.04	1,402.53	4,793.14
....	303.13	....	....	....	....	....
1,903	52	101	96	1,802	127	578
251	15	22	19	257	25	101
60	2	4	....	59	....	19
2,214	69	127	115	2,118	152	698

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Ridgetown	Ripley	Riverside	Rockwood	Rodney
Population	2,209	437	6,857	P.V.	859
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	11,539.50	4,860.03	65,640.91	6,307.53	4,893.52
Commercial light service	10,474.69	2,643.84	11,325.02	2,203.74	3,705.35
Commercial power service	7,521.54	1,043.96	5,619.51	67.29	3,259.81
Municipal power	1,376.56	528.72	3,850.91	....	....
Street lighting	3,483.61	1,066.00	5,352.69	700.60	1,142.10
Merchandise	....	....	1,126.88	3.66	....
Miscellaneous	1,242.54	7.94	1,477.85	132.27	202.32
Total earnings	35,638.44	10,150.49	94,393.77	9,415.09	13,203.10
EXPENSES					
Cost of power supplied by H-E.P.C.	18,274.64	5,659.51	55,048.09	5,917.48	7,453.32
Substation operation	....	....	96.12	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	5,092.92	275.29	3,562.56	362.82	1,026.47
Line transformer maintenance	43.21	....	155.86	12.91	41.50
Meter maintenance	1,063.68	160.51	1,400.60	76.73	493.51
Consumers' premises expenses	216.69	....	9,010.39	....	....
Street lighting, operation and maintenance	967.92	98.06	977.37	80.91	332.84
Promotion of business	39.29	....	....	....	....
Billing and collecting	3,212.77	....	2,876.74	628.32	542.49
General office, salaries and expenses	3,344.97	595.03	4,324.45	477.92	623.47
Undistributed expenses	10.56	....	1,186.19	25.29	58.87
Truck operation and maintenance	432.16	....	1,611.35	....	....
Interest	....	66.70	204.95	28.00	....
Sinking fund and principal payments on debentures	....	969.86	....	173.29	....
Depreciation	1,460.00	658.00	6,700.00	499.00	927.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	34,158.81	8,482.96	87,154.67	8,282.67	11,499.47
Net surplus	1,479.63	1,667.53	7,239.10	1,132.42	1,703.63
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	707	144	2,145	199	295
Commercial light service	164	55	104	38	76
Power service	25	2	15	2	8
Total	896	201	2,264	239	379

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Rosseau	Russell	St. Catharines	St. Clair Beach	St. George	St. Jacobs
240	P.V.	35,436	322	P.V.	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,457.89	4,853.09	250,979.25	4,853.45	4,688.40	6,001.80
1,274.62	3,176.09	119,725.99	2,208.75	2,907.74	2,694.08
701.88	222.00	453,069.34	215.25	3,852.98	4,441.35
....	....	....	....	....	....
940.02	880.00	29,142.72	269.00	539.67	460.00
....	....	....	....	....	....
75.00	222.49	12,207.63	336.74	221.17	359.30
5,449.41	9,353.67	865,124.93	7,883.19	12,209.96	13,956.53
2,520.91	4,262.89	645,169.89	4,441.87	7,325.64	10,359.89
....	....	17,796.14	....	....	....
....	....	....	....	....	....
344.90	707.94	34,492.37	818.01	226.74	170.22
....	....	2,760.94	71.00	27.69	153.60
120.95	164.98	13,397.57	88.10	50.99	70.05
....	27.00	3,074.38	37.95	....	....
89.78	247.96	5,891.83	6.60	169.60	110.07
....	....	2,753.85	....	....	....
389.00	558.80	26,827.22	473.42	744.09	806.90
106.34	285.86	14,669.33	674.42	325.01	189.87
12.75	....	14,589.49	1.65	23.10	8.05
....	....	6,185.74	....	....	....
286.46	....	350.00	1.14	2.10	....
846.94	....	3,500.00	....	....	....
250.00	548.00	37,455.00	434.00	578.00	692.00
....	....	....	....	....	....
4,968.03	6,803.43	828,913.75	7,048.16	9,472.96	12,560.65
481.38	2,550.24	36,211.18	835.03	2,737.00	1,395.88
....	....	....	....	....	....
81	136	10,089	143	191	166
16	38	1,302	13	39	38
1	1	241	1	4	9
98	175	11,632	157	234	213

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	St. Marys	St. Thomas	Sarnia	Scarborough Twp. V.A.
Population	3,929	19,135	23,284	
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	46,463.00	172,579.90	175,460.63	278,819.34
Commercial light service	17,687.75	72,776.24	88,152.57	59,622.98
Commercial power service	28,126.82	108,361.71	289,988.10	52,100.57
Municipal power	1,607.99	4,940.63	5,772.36	18,853.49
Street lighting	4,956.50	15,660.07	20,263.78	16,415.40
Merchandise	29.19	....	10,627.89	....
Miscellaneous	485.08	3,632.03	16,172.90	609.28
Total earnings	99,356.33	377,950.58	606,438.23	426,421.06
EXPENSES				
Cost of power supplied by H-E.P.C.	64,187.67	244,309.10	383,953.66	276,089.85
Substation operation	3,365.93	15,199.25	19,653.06	1,297.49
Substation maintenance	84.26	2,132.17	3,272.67	....
Distribution system, operation and maintenance	3,056.96	19,746.56	15,455.13	24,429.48
Line transformer maintenance	390.91	1,291.21	2,886.14	4,700.44
Meter maintenance	982.53	8,859.74	13,413.74	1,290.46
Consumers' premises expenses	5,065.45	19,242.63	27,548.80	3,359.79
Street lighting, operation and maintenance	1,099.77	4,303.86	8,109.53	5,550.60
Promotion of business	82.31	920.40	320.19	....
Billing and collecting	2,529.16	13,604.55	17,220.85	16,347.82
General office, salaries and expenses	4,094.53	17,534.23	29,786.91	13,090.40
Undistributed expenses	1,774.19	....	13,000.66	....
Truck operation and maintenance	2,173.84	....	3,844.33	....
Interest	678.56	....	3,059.38	....
Sinking fund and principal payments on debentures	1,732.91	....	4,000.00	....
Depreciation	4,776.00	15,610.17	33,008.00	30,774.00
Other reserves	....	....	....	....
Total operating costs and fixed charges	96,074.98	362,753.87	578,533.05	376,930.33
Net surplus	3,281.35	15,196.71	27,905.18	49,490.73
Net loss	....	....	....	....
NUMBER OF CONSUMERS				
Domestic service	1,186	5,176	6,273	10,099
Commercial light service	204	650	778	729
Power service	41	93	107	108
Total	1,431	5,919	7,158	10,936

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Seaforth	Shelburne	Simcoe	Smiths Falls	Smithville	Southampton
1,971	1,209	6,908	8,335	P.V.	1,792
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19,323.55	9,591.67	37,131.96	77,102.55	4,842.13	17,145.92
12,688.90	5,879.73	40,055.89	36,365.42	4,490.19	7,997.44
16,635.41	3,795.20	35,280.48	36,889.77	13,561.16	10,233.73
693.87	345.40	3,356.75	1,064.15	....	1,106.22
2,039.00	1,197.00	7,514.61	8,992.96	1,344.00	2,914.91
333.47	....	145.98	....	....	17.00
468.50	296.09	4,444.68	4,867.86	461.21	281.00
52,182.70	21,105.09	127,930.35	165,282.71	24,698.69	39,696.22
34,453.67	13,214.33	80,727.43	101,962.04	14,677.75	25,372.72
258.15	....	1,475.91	328.52	....	....
....	....	....	1,528.95	....	....
3,456.27	1,088.53	7,101.83	8,473.68	2,308.24	2,622.09
126.43	33.85	1,258.93	194.02	38.68	92.74
642.43	390.37	3,170.43	2,032.19	158.40	676.67
731.90	....	1,125.19	296.88	455.90	809.54
356.96	300.89	1,668.00	2,659.94	286.94	618.93
....	....	38.56	....	....	....
1,495.23	951.58	4,411.90	6,215.34	1,333.05	1,208.39
1,808.23	371.90	4,341.52	7,041.42	656.23	760.53
922.10	4.27	969.03	2,581.96	85.17	128.83
1,018.63	....	2,975.19	3,223.80	415.78	952.49
314.70	15.92	131.11	216.14	79.06	24.80
637.06	....	831.80	....	968.91	....
2,638.00	1,214.00	8,301.00	6,156.00	821.00	1,839.00
....	....	....	....	....	....
48,859.76	17,585.64	118,527.83	142,910.88	22,285.11	35,106.73
3,322.94	3,519.45	9,402.52	22,371.83	2,413.58	4,589.49
....	....	....	....	....	....
590	362	1,947	2,378	209	705
125	97	446	350	63	111
19	13	70	47	10	14
734	472	2,463	2,775	282	830

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality Population	Springfield 455	Stamford Twp. V.A.	Stayner 1,120	Stirling 1,115
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	3,505.28	114,838.53	10,227.86	11,069.80
Commercial light service	1,223.33	27,350.12	6,112.52	4,873.69
Commercial power service	1,656.29	25,422.04	4,018.21	2,368.92
Municipal power	....	2,587.40	116.38	291.19
Street lighting	619.00	9,943.50	1,612.00	1,744.02
Merchandise	....	3,540.52	5.70	89.66
Miscellaneous	194.93	357.31	399.20	481.55
Total earnings	7,198.83	184,039.42	22,491.87	20,918.83
EXPENSES				
Cost of power supplied by H-E.P.C.	3,602.01	89,526.80	11,949.11	11,252.03
Substation operation	....	1,184.98	....	241.60
Substation maintenance	....	....	....	....
Distribution system, operation and maintenance	487.42	10,855.84	1,187.67	1,330.49
Line transformer maintenance	42.96	1,798.01	....	2.92
Meter maintenance	325.02	4,800.43	302.15	81.93
Consumers' premises expenses	2.70	5,071.06	377.65	5.00
Street lighting, operation and maintenance	95.84	1,989.32	290.30	357.45
Promotion of business	....	....	....	....
Billing and collecting	483.45	8,040.23	1,161.22	998.99
General office, salaries and expenses	336.00	7,582.17	524.06	1,940.18
Undistributed expenses	11.28	7,526.12	5.33	197.45
Truck operation and maintenance	....	6,718.84	....	320.33
Interest	....	4,632.26	....	....
Sinking fund and principal payments on debentures	....	9,138.94	....	....
Depreciation	647.00	16,327.00	984.00	1,415.00
Other reserves	....	....	....	....
Total operating costs and fixed charges	6,033.68	175,192.00	16,781.49	18,143.37
Net surplus	1,165.15	8,847.42	5,710.38	2,775.46
Net loss	....	....	....	....
NUMBER OF CONSUMERS				
Domestic service	133	3,692	353	343
Commercial light service	33	248	106	86
Power service	4	28	20	15
Total	170	3,968	479	444

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Stoney Creek	Stouffville	Stratford	Strathroy	Streetsville	Sunderland
1,395	1,438	18,548	3,333	870	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19,349.68	13,134.14	193,022.44	36,294.93	10,892.87	5,135.27
7,913.33	7,011.47	64,305.05	18,271.25	4,909.86	2,508.75
3,481.20	5,029.32	77,652.02	19,343.94	15,017.66	2,878.43
....	....	9,823.38	1,390.94	435.63	....
999.92	1,485.00	17,650.29	4,545.08	1,500.00	693.20
....	....	1,891.32	....	....	3.77
....	247.70	16,133.48	1,097.46	114.61	....
31,744.13	26,907.63	380,477.98	80,943.60	32,870.63	11,219.42
15,901.32	17,275.85	226,692.73	49,109.09	18,601.28	6,296.15
....	....	10,261.09	1,640.00	....	....
....	....	1,804.96	....	2,014.72	....
682.70	1,047.22	17,545.95	6,892.54	1,228.10	763.44
312.14	55.70	665.21	544.48	14.07	62.89
356.48	934.45	5,766.56	822.58	284.75	113.64
347.22	248.42	6,906.16	136.01	3.56	....
57.42	150.11	3,576.30	1,866.64	154.87	87.55
....	....	1,559.56	144.42	....	....
787.48	1,272.84	12,267.79	1,677.78	1,264.12	664.37
82.16	456.55	12,932.72	3,580.80	473.93	121.45
5.47	68.93	4,446.44	718.91	....	4.51
....	....	2,778.99	499.92	....	....
1,400.00	....	3,550.00	218.52	....	6.60
1,414.44	....	....	1,386.33	....	....
2,283.00	1,074.00	21,718.00	3,547.00	1,278.00	316.00
....	....	....	....	....	....
23,629.83	22,584.07	332,472.46	72,785.02	25,317.40	8,436.60
8,114.30	4,323.56	48,005.52	8,158.58	7,553.23	2,782.82
....	....	....	....	....	....
475	491	5,014	1,070	260	175
79	99	670	211	58	39
10	10	137	38	12	2
564	600	5,821	1,319	330	216

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Sutton	Swansea	Tara	Tavistock
Population	1,114	7,360	491	1,079
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domsetic service	13,240.77	88,031.68	4,146.89	11,907.50
Commercial light service	11,013.08	15,759.22	2,034.58	5,810.18
Commercial power service	2,821.20	26,899.41	1,776.73	9,089.72
Municipal power	...	1,983.59	125.57	417.66
Street lighting	2,237.75	7,207.07	1,005.00	1,324.42
Merchandise	...	...	...	11.09
Miscellaneous	211.09	1,949.68	24.46	399.84
Total earnings	29,523.89	141,830.65	9,113.23	28,960.41
EXPENSES				
Cost of power supplied by H-E.P.C.	17,479.68	89,851.17	6,311.02	21,859.37
Substation operation	...	...	...	58.27
Substation maintenance	...	405.75	...	...
Distribution system, operation and maintenance	763.49	2,102.33	364.92	1,049.92
Line transformer maintenance	199.15	402.41	...	29.72
Meter maintenance	134.67	1,126.81	201.53	279.40
Consumers' premises expenses	...	10,242.58	...	611.19
Street lighting, operation and maintenance	394.97	1,316.31	136.00	285.85
Promotion of business	...	...	...	...
Billing and collecting	850.68	6,222.11	262.20	1,516.66
General office, salaries and expenses	406.52	3,178.70	142.89	668.90
Undistributed expenses	60.09	...	17.31	35.22
Truck operation and maintenance	154.05	...	...	...
Interest	...	1,616.57	...	21.27
Sinking fund and principal payments on debentures	...	4,573.99	...	...
Depreciation	1,684.00	4,602.00	714.00	880.00
Other reserves	...	...	...	...
Total operating costs and fixed charges	22,127.30	125,640.73	8,149.87	27,295.77
Net surplus	7,396.59	16,189.92	963.36	1,664.64
Net loss	...	...	...	...
NUMBER OF CONSUMERS				
Domestic service	531	2,325	178	330
Commercial light service	114	144	44	101
Power service	10	24	8	9
Total	655	2,493	230	440

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Tecumseh	Teeswater	Thamesford	Thamesville	Thedford	Thornbury
3,343	849	P.V.	857	579	943
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
21,950.45	6,657.69	6,411.90	5,061.15	5,143.13	8,546.03
7,772.35	4,004.38	2,471.35	4,191.02	3,677.64	4,216.76
7,635.24	2,753.73	2,621.53	4,012.51	2,463.27	3,271.49
503.71	590.72	....	168.80	....	673.75
1,714.85	1,125.66	656.16	1,325.70	1,275.00	1,845.30
....	....	....	....	....	0.04
685.23	413.03	118.33	424.26	304.65	....
40,261.83	15,545.21	12,279.27	15,183.44	12,863.69	18,553.37
22,079.13	9,023.43	9,155.56	9,726.13	8,320.30	3,602.18
....	....	....	....	....	4,974.54
....	....	....	....	....	....
1,640.18	554.84	682.99	887.87	680.56	975.44
472.78	....	15.14	19.15	120.39	....
867.64	142.57	165.93	145.61	28.35	61.15
1,579.29	....	382.54	....	....	....
638.18	98.05	92.43	213.86	87.66	251.30
24.41	....	....	....	....	....
1,567.45	723.93	238.96	917.60	616.49	885.76
2,211.25	394.81	103.49	449.44	197.24	622.42
234.26	....	8.52	31.53	10.29	229.08
554.25	....	....	....	....	....
3.40	4.44	....	1.66	6.04	172.72
....	....	....	....	....	255.36
2,860.00	815.00	457.00	839.00	834.00	1,012.00
....	....	....	....	....	....
34,732.22	11,757.07	11,302.56	13,231.85	10,901.32	13,041.95
5,529.61	3,788.14	976.71	1,951.59	1,962.37	5,511.42
....	....	....	....	....	....
892	254	172	287	196	315
87	65	45	92	63	70
8	8	5	11	3	14
987	327	222	390	262	399

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Thorndale	Thornton	Thorold	Tilbury
Population	P.V.	P.V.	6,173	2,205
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	3,147.64	1,868.24	28,694.50	14,544.24
Commercial light service	1,116.21	617.96	11,233.74	10,504.89
Commercial power service	2,375.19	426.81	60,848.58	19,982.36
Municipal power			4,168.79	225.00
Street lighting	384.00	25.00	4,288.73	3,013.05
Merchandise				
Miscellaneous	74.14	74.65	2,211.71	773.65
Total earnings	7,097.18	3,012.66	111,446.05	49,043.19
EXPENSES				
Cost of power supplied by H-E.P.C.	4,831.11	2,194.26	79,504.36	36,162.16
Substation operation			5,235.00	
Substation maintenance				
Distribution system, operation and maintenance	513.71	344.19	5,056.53	3,795.59
Line transformer maintenance	28.72		418.05	191.60
Meter maintenance	173.00	18.84	792.67	572.21
Consumers' premises expenses	6.00		801.05	
Street lighting, operation and maintenance	20.00	81.03	1,769.11	748.56
Promotion of business				7.25
Billing and collecting	224.10		3,334.70	1,336.73
General office, salaries and expenses	52.00	169.45	2,144.50	1,573.19
Undistributed expenses	1.52		1,356.41	466.27
Truck operation and maintenance			1,472.94	406.72
Interest	4.85			114.99
Sinking fund and principal payments on debentures				
Depreciation	250.00	357.00	4,952.00	3,007.00
Other reserves				
Total operating costs and fixed charges	6,105.01	3,164.77	106,837.32	48,382.27
Net surplus	992.17		4,608.73	660.92
Net loss		152.11		
NUMBER OF CONSUMERS				
Domestic service	85	72	1,521	708
Commercial light service	21	14	178	152
Power service	3	2	33	20
Total	109	88	1,732	880

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Tillsonburg 4,727	Toronto 680,000	Toronto Twp. V.A.	Tottenham 551	Trafalgar Twp. V.A.	Trenton 9,337
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
31,732.97	4,900,193.46	181,419.86	5,651.54	41,531.32	68,552.74
27,867.27	3,379,248.00	37,577.39	2,530.32	6,203.42	27,717.68
25,753.75	5,387,912.75	80,290.34	1,716.07	5,780.64	95,565.45
1,948.78	1,696,115.51	508.42	374.33	....	6,498.06
5,764.89	491,796.83	8,423.59	1,037.16	145.00	10,674.31
428.02	21,468.46	....	....	....	....
637.30	570,068.22	662.13	....	236.21	4,456.25
94,132.98	16,446,803.23	308,881.73	11,309.42	53,896.59	213,464.49
57,332.91	*9,550,082.17	183,494.96	5,243.29	29,735.16	151,253.71
1,995.19	382,740.25	....	....	....	325.84
....	506,451.84	....	....	....	....
6,313.55	635,478.25	15,733.07	849.13	9,017.88	4,046.69
871.21	101,309.85	2,186.30	13.05	495.94	346.72
1,417.75	171,263.79	1,782.51	132.73	929.16	3,549.27
189.39	416,118.09	467.72	....	27.89	2,273.32
1,862.47	185,477.88	3,374.88	67.20	11.20	1,080.24
....	211,899.79	....	....	....	....
3,498.39	650,753.49	13,783.49	568.20	2,117.19	6,480.95
3,999.53	613,657.75	19,897.24	206.21	1,563.14	7,178.21
1,638.35	461,790.55	....	73.00	1,279.35	1,972.34
1,933.31	....	....	341.84	2,664.81	3,072.87
306.04	134,617.29	1,943.32	294.94	236.79	....
459.59	332,587.95	3,755.10	537.67	1,189.75	....
6,183.00	1,477,091.07	20,264.00	603.00	3,546.00	10,731.00
....	†600,000.00	....	....	....	....
88,000.68	16,431,320.01	266,682.59	8,930.26	52,814.26	192,311.16
6,132.30	15,483.22	42,199.14	2,379.16	1,082.33	21,153.33
....	....	....	....	....	....
1,483	156,963	4,773	186	843	2,444
330	25,550	365	50	74	314
48	5,839	85	9	17	61
1,861	188,352	5,223	245	934	2,819

*Includes 1949 power adjustment.
†Provision for frequency standardization.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Tweed	Uxbridge	Victoria Harbour	Walkerton
Population	1,700	1,630	933	2,979
Earnings	$ c.	$ c.	$ c.	$ c.
Domestic service	12,362.30	17,297.40	5,479.34	29,764.20
Commercial light service	7,578.34	7,309.74	1,261.95	19,826.62
Commercial power service	9,557.91	4,851.27	...	16,152.53
Municipal power	500.79	505.35	418.99	541.59
Street lighting	1,850.07	1,985.98	663.00	3,349.91
Merchandise	...	46.76	...	32.73
Miscellaneous	441.72	366.94	93.80	1,218.28
Total earnings	32,291.13	32,363.44	7,917.08	70,885.86
Expenses				
Cost of power supplied by H-E.P.C.	18,149.64	18,486.47	4,577.96	35,227.69
Substation operation	...	...	...	...
Substation maintenance	...	...	...	...
Distribution system, operation and maintenance	1,667.50	2,009.35	607.96	2,772.93
Line transformer maintenance	71.95	71.40	...	331.45
Meter maintenance	541.12	310.63	70.45	544.53
Consumers' premises expenses	...	724.23	...	39.97
Street lighting, operation and maintenance	240.73	395.81	172.60	401.32
Promotion of business	...	...	...	...
Billing and collecting	1,100.71	1,193.88	880.53	2,824.79
General office, salaries and expenses	402.06	1,030.39	565.80	1,987.45
Undistributed expenses	11.19	11.72	75.44	240.76
Truck operation and maintenance	...	...	...	1,373.88
Interest	...	...	...	688.34
Sinking fund and principal payments on debentures	...	...	...	4,366.94
Depreciation	1,103.00	1,363.00	464.00	2,747.00
Other reserves	...	...	...	...
Total operating costs and fixed charges	23,287.90	25,596.88	7,414.74	53,547.05
Net surplus	9,003.23	6,766.56	502.34	17,338.81
Net loss	...	...	...	...
Number of Consumers				
Domestic service	389	518	327	824
Commercial light service	86	109	35	176
Power service	19	17	1	21
Total	494	644	363	1,021

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Wallaceburg 6,920	Wardsville 315	Warkworth P.V.	Waterdown 1,070	Waterford 1,546	Waterloo 10,680
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
43,804.27	3,017.17	4,045.67	10,869.30	11,116.00	91,515.48
28,118.54	2,299.89	2,267.26	3,457.40	4,674.97	32,336.41
188,629.12	42.42	206.98	1,810.17	5,603.98	99,770.65
5,475.92	....	....	118.82	328.34	4,220.41
5,676.75	666.00	666.24	1,225.00	1,510.00	8,423.16
4,325.93	....	....	....	....	150.06
4,361.86	128.47	127.09	252.15	395.34	869.20
280,392.39	6,153.95	7,313.24	17,732.84	23,628.63	237,285.37
194,838.20	3,729.35	4,057.59	11,400.67	14,089.41	183,237.43
698.15	....	....	....	....	3,612.05
....	....	....	....	....	726.81
6,884.91	549.03	338.35	1,265.33	2,578.66	11,237.24
86.27	10.00	....	172.65	156.90	880.06
1,832.04	137.81	193.86	707.10	360.92	2,851.48
....	....	....	....	....	740.96
1,387.25	74.22	18.50	198.89	317.26	1,834.15
141.36	....	....	....	....	....
3,363.52	111.87	289.95	1,027.36	787.08	6,197.97
6,243.92	115.95	70.39	140.10	542.86	8,302.33
2,186.86	18.84	8.56	84.99	139.69	2,669.59
3,708.51	....	....	192.53	....	2,183.51
....	6.76	235.78	....	....	19.32
....	....	563.36	....	....	....
10,724.00	271.00	236.00	1,274.00	941.00	10,503.00
....	....	....	....	....	....
232,094.99	5,024.83	6,012.34	16,463.62	19,913.78	234,995.90
48,297.40	1,129.12	1,300.90	1,269.22	3,714.85	2,289.47
....	....	....	....	....	....
1,924	87	162	341	510	2,864
309	23	40	48	81	302
66	1	1	10	15	114
2,299	111	203	399	606	3,280

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Watford	Waubaushene	Welland	Wellesley
Population	1,079	P.V.	16,004	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	12,212.59	5,764.35	64,948.56	4,242.78
Commercial light service	6,580.34	1,556.69	53,046.81	2,923.83
Commercial power service	5,914.66	854.81	190,028.01	1,414.61
Municipal power	376.10	175.97	3,817.15	
Street lighting	1,576.44	599.00	15,897.73	771.60
Merchandise	80.96			
Miscellaneous	428.38	23.30	12,998.50	205.72
Total earnings	27,169.47	8,974.12	340,736.76	9,558.54
EXPENSES				
Cost of power supplied by H-E.P.C.	18,112.27	5,110.71	245,193.64	6,115.93
Substation operation			12,564.79	
Substation maintenance			634.08	
Distribution system, operation and maintenance	2,253.26	375.60	8,414.97	166.91
Line transformer maintenance	6.94		904.42	57.26
Meter maintenance	227.76	114.00	9,944.25	66.60
Consumers' premises expenses	99.37		4,850.75	201.08
Street lighting, operation and maintenance	160.61	113.90	2,678.60	165.13
Promotion of business	13.40		14.90	
Billing and collecting	1,069.13	558.29	9,396.06	385.80
General office, salaries and expenses	1,045.31	158.67	13,457.03	335.20
Undistributed expenses	367.66	69.25	7,521.39	5.68
Truck operation and maintenance	648.77		2,214.68	
Interest				
Sinking fund and principal payments on debentures				
Depreciation	856.00	578.00	14,367.00	585.00
Other reserves				
Total operating costs and fixed charges	24,860.48	7,078.42	332,156.56	8,084.59
Net surplus	2,308.99	1,895.70	8,580.20	1,473.95
Net loss				
NUMBER OF CONSUMERS				
Domestic service	343	281	3,572	160
Commercial light service	84	30	569	52
Power service	9	3	99	8
Total	436	314	4,240	220

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Wellington	West Lorne	Weston	Westport	Wheatley	Whitby	Wiarton
1,036	927	7,219	687	969	4,638	1,837
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,306.33	6,160.79	81,961.28	5,712.43	6,279.52	49,633.00	13,079.69
3,888.82	4,897.33	22,227.36	4,996.93	7,051.80	18,557.90	11,264.38
5,311.47	14,614.77	73,558.02	....	5,988.98	19,544.74	10,576.58
....	....	31.26	....	629.98	2,686.65	2,160.57
1,126.98	1,245.17	7,940.22	1,120.08	2,036.50	5,009.22	2,273.81
....	....	....	....	....	....	....
409.71	461.92	284.67	207.42	39.35	896.60	566.16
20,043.31	27,379.98	186,002.81	12,036.86	22,026.13	96,328.11	39,921.19
10,664.05	19,324.30	133,415.33	5,960.70	14,793.96	50,860.53	23,405.13
....	....	....	....	....	888.67	....
....	....	856.82	....	....	....	....
816.56	482.86	13,126.31	959.37	1,248.89	6,186.30	1,797.31
138.50	....	1,623.33	....	270.25	714.35	116.91
134.40	38.18	1,976.34	76.20	138.26	1,456.72	277.41
91.63	....	883.07	....	163.33	3,406.83	509.49
21.80	531.43	1,654.42	146.36	398.93	1,545.19	471.76
....	....	....	....	....	141.08	....
597.97	734.78	4,112.89	812.20	756.74	3,535.33	992.17
513.72	417.10	7,779.80	770.34	938.54	6,300.29	1,040.36
337.64	6.02	1,453.11	42.81	29.95	1,900.46	370.23
171.33	....	3,894.57	....	....	506.41	657.23
....	2.45	....	....	46.88	181.75	544.20
....	....	....	1,255.20	....	568.34	2,468.98
1,241.00	1,423.00	10,761.00	443.00	1,600.00	6,748.00	1,494.00
....	....	....	....	....	....	....
14,728.60	22,960.12	181,536.99	10,466.18	20,385.73	84,940.25	34,145.18
5,314.71	4,419.86	4,465.82	1,570.68	1,640.40	11,387.86	5,776.01
....	....	....	....	....	....	....
388	279	2,102	177	283	1,300	513
80	74	356	61	88	196	110
12	13	46	....	15	34	25
480	366	2,504	238	386	1,530	648

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Williamsburg	Winchester	Windermere	Windsor
Population	P.V.	1,094	118	118,702
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	2,318.56	10,376.40	2,921.54	865,239.65
Commercial light service	2,344.11	7,400.54	1,380.45	494,312.17
Commercial power service		6,232.83	1,077.59	885,410.64
Municipal power				24,279.99
Street lighting	472.10	1,062.00	325.00	118,389.42
Merchandise				57,832.91
Miscellaneous	645.78	285.94	81.21	39,922.05
Total earnings	5,780.55	25,357.71	5,785.79	2,485,386.83
EXPENSES				
Cost of power supplied by H-E.P.C.	3,335.28	18,163.10	2,934.51	*1,679,539.34
Substation operation				84,793.58
Substation maintenance				26,250.19
Distribution system, operation and maintenance	215.62	610.48	501.23	64,262.82
Line transformer maintenance		142.99		14,928.24
Meter maintenance	59.28	355.33	6.60	42,005.23
Consumers' premises expenses		80.85		119,639.61
Street lighting, operation and maintenance	59.28	151.65	51.43	59,055.53
Promotion of business				9,580.77
Billing and collecting	446.66	1,099.92	182.25	102,792.80
General office, salaries and expenses	123.49	344.59	100.64	79,986.86
Undistributed expenses			6.72	7,078.71
Truck operation and maintenance				20,459.47
Interest			132.79	16,585.10
Sinking fund and principal payments on debentures			890.79	
Depreciation	249.00	732.00	347.00	196,966.00
Other reserves				
Total operating costs and fixed charges	4,488.61	21,680.91	5,153.96	2,523,924.25
Net surplus	1,291.94	3,676.80	631.83	
Net loss				38,537.42
NUMBER OF CONSUMERS				
Domestic service	97	348	81	28,763
Commercial light service	37	95	12	3,771
Power service		4	2	604
Total	134	447	95	33,138

*Includes 1949 cost adjustment.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Wingham 2,368	Woodbridge 1,250	Woodstock 13,533	Woodville 408	Wyoming 644	York Twp. V.A.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
26,881.01	12,487.13	120,482.02	3,543.58	3,938.33	694,355.59
16,167.76	4,428.18	68,335.62	1,328.72	2,208.02	129,771.52
22,541.04	19,045.76	120,481.59	619.12	3,162.91	231,779.94
1,551.34	1,125.80	7,057.41	...	...	6,957.95
3,654.58	1,086.00	9,752.00	745.99	688.50	52,874.21
1,567.84	...	54.03	...	...	...
472.65	366.40	1,591.22	187.51	78.00	8,033.86
72,836.22	38,539.27	327,753.89	6,424.92	10,075.76	1,123,773.07
37,267.66	33,340.18	240,010.03	2,575.70	6,830.12	672,870.69
4,365.03	...	14,408.53	...	...	6,322.93
...	...	...	...	...	3,141.91
3,255.39	446.39	14,888.36	657.86	304.43	27,079.09
475.24	158.55	73.70	...	14.54	12,088.83
1,194.41	413.45	7,275.47	26.00	167.27	22,316.67
2,652.78	158.76	9,615.26	...	...	42,374.02
737.56	225.37	2,648.96	106.91	142.19	12,764.41
...	...	2,683.05	...	...	...
2,375.62	1,033.68	7,827.47	645.43	213.75	83,966.14
2,722.93	566.70	8,519.87	115.74	228.36	55,095.61
490.16	7.56	3,924.60	6.62	8.90	...
2,296.23	...	2,510.71	...	...	...
643.96	...	...	...	19.06	386.02
2,535.78	...	...	...	...	7,720.33
4,933.00	927.00	12,829.00	217.00	456.00	53,064.00
...	...	...	...	...	824.13
65,945.75	37,277.64	327,215.01	4,351.26	8,384.62	1,000,014.78
6,890.47	1,261.63	538.88	2,073.66	1,691.14	123,758.29
...	...	...	...	...	...
725	367	4,109	133	196	25,437
157	70	552	30	48	1,474
26	10	117	2	4	286
908	447	4,778	165	248	27,197

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality Population	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 33,220	Nipigon V.A.
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	5,716.33	19,884,906.04	340,059.52	12,817.66
Commercial light service	4,381.05	9,811,643.01	149,173.62	13,987.19
Commercial power service	...	18,577,982.85	112,432.30	1,732.59
Municipal power	...	2,408,972.76	16,271.69	...
Street lighting	658.85	2,106,197.89	27,295.59	955.00
Merchandise	...	213,956.24	...	...
Miscellaneous	208.39	1,204,506.40	6,503.91	662.69
Total earnings	10,964.62	54,208,165.19	651,736.63	30,155.13
EXPENSES				
Cost of power supplied by H-E.P.C.	7,536.10	34,448,133.56	403,324.83	13,563.71
Substation operation	...	1,058,435.19	12,527.63	...
Substation maintenance	...	617,967.93	2,244.48	...
Distribution system, operation and maintenance	679.14	2,016,327.07	15,299.20	4,133.94
Line transformer maintenance	112.05	270,138.36	3,338.95	228.42
Meter maintenance	116.23	703,786.53	10,302.59	441.51
Consumers' premises expenses	...	1,036,445.16	14,084.84	...
Street lighting, operation and maintenance	113.94	654,263.76	8,308.58	635.13
Promotion of business	...	279,778.73	705.00	...
Billing and collecting	237.49	1,941,659.70	32,571.59	1,129.46
General office, salaries and expenses	437.54	1,867,842.55	19,229.02	1,381.77
Undistributed expenses	2.27	788,585.76	10,249.13	258.01
Truck operation and maintenance	64.44	244,796.68	...	671.69
Interest	...	285,392.94	12,588.80	...
Sinking fund and principal payments on debentures	...	821,770.99	5,254.84	...
Depreciation	391.00	3,501,152.09	30,442.00	1,335.00
Other reserves	...	630,690.02	1,000.00	...
Total operating costs and fixed charges	9,690.20	51,167,167.02	581,471.48	23,778.64
Net surplus	1,274.42	3,040,998.17	70,265.15	6,376.49
Net loss	...	...	...	...
NUMBER OF CONSUMERS				
Domestic service	185	650,026	9,164	374
Commercial light service	51	89,764	1,350	99
Power service	...	16,591	161	5
Total	236	756,381	10,675	478

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

THUNDER BAY SYSTEM

Port Arthur 29,165	Red Rock I.D.	Schreiber V.A.	Terrace Bay I.D.	THUNDER BAY SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.
247,865.23	9,870.07	17,810.41	19,226.90	647,649.79
140,632.35	6,400.16	9,450.11	7,974.67	327,618.10
339,379.21	119.65	265.28	8,503.94	462,432.97
30,134.67	553.45	....	....	46,959.81
30,199.05	1,001.25	1,122.04	1,281.00	61,853.93
....	....	....	....	....
14,981.90	....	....	37.65	22,186.15
803,192.41	17,944.58	28,647.84	37,024.16	1,568,700.75
592,886.54	9,765.80	10,465.74	28,149.80	1,058,156.42
35,701.89	....	....	....	48,229.52
3,512.30	....	....	....	5,756.78
24,227.01	618.06	2,441.64	94.21	46,814.06
2,599.51	113.88	....	....	6,280.76
12,503.91	27.67	214.70	85.86	23,576.24
....	62.50	....	....	14,147.34
6,101.07	108.21	263.76	202.39	15,619.14
2,134.31	....	....	....	2,839.31
22,653.55	920.24	1,742.28	1,463.26	60,480.38
24,687.49	505.45	824.20	376.68	47,004.61
23,920.44	232.22	432.94	7.43	35,100.17
6,029.86	....	....	....	6,701.55
....	944.77	1,072.75	....	14,606.32
....	1,170.00	1,372.53	....	7,797.37
40,077.67	771.00	923.00	1,590.00	75,138.67
3,000.00	....	....	....	4,000.00
800,035.55	15,239.80	19,753.54	31,969.63	1,472,248.64
3,156.86	2,704.78	8,894.30	5,054.53	96,452.11
....	....	....	....	....
8,176	190	395	227	18,526
1,153	20	53	14	2,689
148	3	4	1	322
9,477	213	452	242	21,537

STATEMENT

Detailed Operating Reports of Electrical Departments of

NORTHERN ONTARIO PROPERTIES

Municipality	Capreol	Larder Lake*	McGarry*	North Bay
Population	1,775	V.A.	I.D.	18,057
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	19,064.45	13,920.55	13,174.26	156,787.92
Commercial light service	5,792.07	5,832.39	5,887.66	82,411.84
Commercial power service	8,281.62	414.48		69,423.40
Municipal power	768.09	839.97		5,787.45
Street lighting	1,883.92	1,122.66	521.78	12,996.89
Merchandise				2,777.93
Miscellaneous	125.97			
Total earnings	35,916.12	22,130.05	19,583.70	330,185.43
EXPENSES				
Cost of power supplied by H-E.P.C.	24,505.54	13,147.61	13,155.84	213,634.76
Substation operation	48.45			3,945.59
Substation maintenance				
Distribution system, operation and maintenance	2,933.29	655.88	500.61	16,961.29
Line transformer maintenance	67.85	116.39	98.25	1,553.10
Meter maintenance	378.34	152.62	109.86	6,973.82
Consumers' premises expenses	4.54			7,353.05
Street lighting, operation and maintenance	967.03	639.48	639.66	4,412.98
Promotion of business				
Billing and collecting	1,943.38	1,711.66	1,347.80	22,247.65
General office, salaries and expenses	984.90	1,826.08	1,103.80	19,348.52
Undistributed expenses	235.35	520.57	42.00	6,678.10
Truck operation and maintenance	788.41			5,649.61
Interest		514.36	395.72	725.52
Sinking fund and principal payments on debentures		675.00	375.00	
Depreciation	1,371.00	882.00	547.00	14,131.00
Other reserves				
Total operating costs and fixed charges	34,228.08	20,841.65	18,315.54	323,614.99
Net surplus	1,688.04	1,288.40	1,268.16	6,570.44
Net loss				
NUMBER OF CONSUMERS				
Domestic service	517	441	296	4,187
Commercial light service	69	89	60	775
Power service	2	4		102
Total	588	534	356	5,064

*9 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Sioux Lookout 2,155	Sudbury 41,206	NORTHERN ONTARIO PROPERTIES SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.
28,697.28	373,634.46	605,278.92	21,137,834.75
21,395.08	183,813.69	305,132.73	10,444,393.84
1,868.16	57,667.43	137,655.09	19,178,070.91
1,825.63	10,386.09	19,607.23	2,475,539.80
3,075.00	31,898.95	51,499.20	2,219,551.02
....	....	2,777.93	216,734.17
13.25	4,244.47	4,383.69	1,231,076.24
56,874.40	661,645.09	1,126,334.79	56,903,200.73
27,102.43	427,232.59	718,778.77	36,225,068.75
....	15,479.47	19,473.51	1,126,138.22
....	2,317.05	2,317.05	626,041.76
4,729.88	21,970.64	47,751.59	2,110,892.72
189.51	938.91	2,964.01	279,383.13
281.27	16,123.64	24,019.55	751,382.32
....	3,718.76	11,076.35	1,061,668.85
284.70	11,757.56	18,701.41	688,584.31
....	....	....	282,618.04
3,856.84	43,827.53	74,934.86	2,077,074.94
1,685.82	21,931.52	46,880.64	1,961,727.80
318.03	1,857.56	9,651.61	833,337.54
890.81	10,324.48	17,653.31	269,151.54
....	3,449.74	5,085.34	305,084.60
....	11,564.59	12,614.59	842,182.95
1,030.00	37,232.00	55,193.00	3,631,483.76
....	....	....	634,690.02
40,369.29	629,726.04	1,067,095.59	53,706,511.25
16,505.11	31,919.05	59,239.20	3,196,689.48
....	....	....	....
660	9,764	15,865	684,417
121	1,314	2,428	94,881
8	155	271	17,184
789	11,233	18,564	796,482

STATEMENT "C"

(pages 286 to 305)

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1949

STATEMENT "D"

(pages 306 to 325)

Statistics relating to the Supply of Electrical Energy to Consumers in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1949

STATEMENT "C"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1949

In Statement "C" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission of Ontario.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of Killowatts supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission"†. In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement; subject however to the modification referred to in the special "NOTE—Power Service" at the head of the tabulation.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past few years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge, and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

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*Except municipalities, chiefly townships, served as parts of rural power districts, for which consult Appendix II.

†R.S.O. 1937, Ch. 62, Sec. 89.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. In addition, booster water-heating equipment can be used to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

Power Service: The rate schedules given for power service in Statement "C" are those governing the supply of power at retail by each of the local municipal utilities. The Commission serves direct, certain large power consumers under special contracts, on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Early in 1949 the Commission changed the method of billing the power demand of industrial power consumers by using kilowatt instead of horsepower. This does not constitute a change in power cost to the consumer, but is used to simplify billing procedure. In the table below the actual basic rate, i.e. the net yearly charge computed by assuming 130 hours monthly use of one horsepower in force during 1949 is shown as in previous years, but the former service charge per horsepower per month is now shown as the equivalent service charge per kilowatt per month. In cases where special local discounts were in force equivalent reductions in service charge and energy rates have been incorporated.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand per hp." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month**	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Acton . . . . . T	33.47	. . . .	60	2.3	1.0	0.83	10
Agincourt	35.78	. . . .	60	3.0	1.0	0.83	10
Ailsa Craig	41.31	. . . .	60	2.5	0.9	0.83	10
Alexandria . . . . . T	38.86	. . . .	60	3.0	1.0	1.11	10
Alliston . . . . . T	35.50	. . . .	55	3.5	1.0	1.11	10
Almonte . . . . . T	35.86	. . . .	60	2.5	1.0	0.83	10
Alvinston	52.21	. . . .	60	3.5	1.0	0.83	10
Amherstburg . . . . . T	37.89	. . . .	60	2.5	0.9	0.83	10
Ancaster Twp	37.86	. . . .	60	3.4	1.0	0.83	10
Apple Hill	35.50	. . . .	60	4.0	1.0	1.39	10
Arkona	47.17	. . . .	60	4.0	1.0	1.11	10
Arnprior . . . . . T	30.78	. . . .	60	2.8	0.8	0.83	10
Arthur	45.38	. . . .	45	4.5	1.2	1.11	10
Athens	46.18	33–66	50	4.5	1.5	1.11	10
Atikokan	. . . .	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Aurora . . . . . T	31.13	. . . .	60	2.6	1.0	0.83	10
Aylmer . . . . . T	35.96	. . . .	60	2.2	0.8	0.83	10
Ayr	38.50	. . . .	60	2.7	1.0	1.11	10
Baden	32.82	. . . .	60	2.4	0.9	0.83	10
Bala	. . . .	33–66	50	3.7	1.2	1.66	10
Barrie . . . . . T	28.50	. . . .	60	2.4	0.8	0.83	10
Bath	51.22	. . . .	60	4.8	1.5	2.22	10
Beachville	34.00	. . . .	60	2.8	0.9	0.83	10
Beamsville	32.22	. . . .	60	2.2	0.8	0.83	10
Beardmore	. . . .	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Beaverton	35.98	. . . .	60	2.8	1.0	1.11	10
Beeton	45.00	. . . .	45	4.0	1.2	1.39	10
Belle River	39.68	. . . .	60	3.0	0.9	1.11	10
Belleville C	28.03	. . . .	55	1.8	0.6	0.83	10
Blenheim . . . . . T	39.77	. . . .	60	2.3	0.8	0.83	10

**Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more. Where a service charge of 56 cents is used it applies to either 2-wire or 3-wire service. *2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs. †2-wire service. ‡3-wire service.

“C”

Domestic Service—Commercial Light Service—Power Service

Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.6	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.6	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	3.2	0.9	1.11	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	2.3	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	3.0	0.9	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.9	0.7	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.5	0.8	1.11	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	2.5	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	4.0	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	4.5	1.0	1.11	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	1.6	0.4	1.11	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	1.8	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.2	0.7	1.11	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.0	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	3.7	0.8	1.66	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.4	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.8	1.11	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.5	0.5	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
4.5	1.5	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	......	10
5.0	1.8	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10

†2-wire service. ‡3-wire service.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City t—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Bloomfield	45.45	....	60	2.5	0.9	0.83	10
Blyth	38.98	....	60	2.9	1.0	1.11	10
Bobcaygeon	52.19	....	60	5.0	1.25	2.22	10
Bolton	37.36	....	60	2.9	1.0	0.83	10
Bothwell	46.26	....	60	2.2	0.75	0.83	10
Bowmanville.........t	33.14	....	60	2.8	0.9	0.83	10
Bradford	35.52	....	45	4.2	1.0	1.39	10
Braeside	31.64	....	50	4.0	1.3	0.83	10
Brampton.........t	30.05	....	60	2.1	0.9	0.83	10
Brantford.........c	30.33	....	60	1.8	0.8	0.83	10
Brantford Twp	31.03	....	60	2.8	1.0	1.11	10
Brechin	34.11	....	45	5.5	1.2	1.67	10
Bridgeport	34.74	....	60	3.0	0.9	0.83	10
Brigden	49.69	....	60	3.0	0.9	1.11	10
Brighton	33.36	....	60	3.5	0.9	0.83	10
Brockville.........t	30.51	....	60	1.8	0.7	0.83	10
Brussels	40.81	....	60	3.2	1.0	1.11	10
Burford	34.53	....	60	2.3	0.8	0.83	10
Burgessville	36.75	....	60	4.0	1.0	1.11	10
Burlington.........t	30.79				Special		
Burlington Beach or Hamilton Beach	....	....	60	3.5	1.1	0.83	10
Caledonia	34.67	....	60	2.1	0.9	0.83	10
Campbellville	43.70	....	60	2.8	1.0	1.11	10
Cannington	34.45	....	60	3.2	1.0	1.11	10
Capreol	....	....	50	3.6	1.0	1.39	10
Cardinal	32.74	....	55	2.5	1.0	1.11	10
Carleton Place.........t	32.43	....	55	2.5	0.9	0.83	10
Cayuga	44.50	....	60	3.5	1.0	1.39	10
Chatham.........c	32.18	....	60	2.8	0.8	0.83	10
Chatsworth	35.39	....	50	3.0	1.0	1.39	10
Chesley	32.56	....	55	2.5	0.8	1.11	10
Chesterville	33.09	....	55	2.3	0.9	0.83	10
Chippawa	25.75	....	60	2.0	0.8	0.83	10
Clifford	42.20	....	55	3.3	1.1	1.11	10
Clinton.........t	36.11	....	60	2.2	0.7	0.83	10
Cobden	41.24	....	40	2.8	1.0	1.11	10
Cobourg.........t	33.51	....	60	2.9	1.0	0.83	10
Colborne	34.26	....	60	3.8	1.0	0.83	10
Coldwater	33.56	33–66	55	2.5	1.0	1.11	10
Collingwood.........t	30.95	....	55	2.3	0.9	0.83	10

"C"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.3	0.7	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.4	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	1.7	0.3	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.3	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	3.7	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	4.0	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	1.7	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
z5.0	1.5	0.35	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	2.4	0.6	1.11	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	......	10
5.0	2.7	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.5	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.0	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
4.5	1.6	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	2.7	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	3.5	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	......	10
			Special					Special			
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	1.7	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	2.5	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.8	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	3.2	0.8	1.39	10	31.00	1.35	2.9	1.9	0.33	......	10
5.0	2.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.0	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	3.0	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.2	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.5	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.7	1.11	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.0	0.9	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	3.5	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	1.9	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.5	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.4	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	3.0	1.0	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.5	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	1.8	0.8	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10

zMinimum 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Comber	50.33	....	60	2.9	0.8	0.83	10
Cookstown	34.11	....	45	4.3	1.0	1.39	10
Cottage Cove Townsite	....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Cottam	41.91	....	60	3.0	1.0	0.83	10
Courtright	52.20	....	60	3.0	1.1	1.11	10
Creemore	34.24	....	50	3.1	1.0	1.39	10
Dashwood	45.25	....	60	3.5	1.0	0.83	10
Delaware	34.32	....	60	3.4	1.0	0.83	10
Delhi ... T	36.66	....	60	3.2	1.0	0.83	10
Deseronto	39.59	....	60	3.9	1.0	0.83	10
Dorchester	39.77	....	60	2.6	1.0	0.83	10
Drayton	46.02	....	55	4.0	1.3	1.11	10
Dresden	44.82	....	60	2.5	0.8	0.83	10
Drumbo	38.67	....	60	3.5	1.0	1.11	10
Dublin	42.27	....	60	3.5	1.1	1.11	10
Dundalk	34.14	....	60	2.7	1.0	1.11	10
Dundas ... T	29.76	....	60	2.2	0.8	0.83	10
Dunnville ... T	32.42	....	60	1.8	0.7	0.83	10
Durham ... T	33.99	....	55	2.5	1.0	0.83	10
Dutton	38.69	....	60	2.0	0.8	0.83	10
East York Twp	29.82	....	60	2.3	1.0	0.83	10
Elmira ... T	31.74	....	60	2.6	0.8	0.83	10
Elmvale	33.79	....	60	2.6	1.0	0.83	10
Elmwood	35.97	....	50	3.5	0.9	1.11	10
Elora	36.31	....	60	2.8	1.0	1.11	10
Embro	36.82	....	60	3.3	1.1	0.83	10
Erieau	44.38	....	60	3.7	1.0	1.11	10
Erie Beach	45.25	....	60	4.5	1.2	1.39	10
Erin	....	....	40	5.0	1.5	1.39	10
Essex ... T	37.31	....	60	2.3	0.8	0.83	10
Etobicoke Twp	30.39	....	60	2.5	1.0	0.83	10
Exeter	37.25	....	60	2.6	0.9	0.83	10
Fergus ... T	33.47	....	60	2.6	0.9	1.11	10
Finch	38.74	....	45	3.0	1.2	1.39	10
Flesherton	32.96	....	60	2.8	1.0	1.11	10
Fonthill	31.64	....	60	2.8	1.0	0.83	10
Forest	44.04	....	60	3.0	0.9	0.83	10
Forest Hill ... T	28.88	....	60	2.5	1.1	0.83	10
Fort William ... C	26.59	....	60	1.7	0.6	0.83	10
Frankford	36.95	....	60	4.5	1.2	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.5	0.6	0.83	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	3.8	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.6	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	3.2	1.0	1.11	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	2.6	0.9	1.39	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.6	0.8	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	3.5	0.9	0.83	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.4	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	3.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	3.0	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	......	10
5.0	2.3	0.8	1.11	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	1.8	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	1.7	0.3	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.2	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	3.0	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.4	0.6	1.11	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.7	0.7	0.83	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	3.5	0.9	1.11	10	38.00	1.35	4.0	2.6	0.33	3.00	10
5.0	4.0	1.0	1.39	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	4.0	1.0	1.39	10	36.00	1.35	3.7	2.4	0.33	......	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.9	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.1	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.2	0.4	1.11	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.8	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.3	0.8	1.11	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	2.5	0.6	0.83	10	29.00	1.35	2.6	1.7	0.33	......	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	3.5	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10

†2-wire service. ‡3-wire service.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate: Number of kw-hrs. per month	First rate: Per kw-hr. per month	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
	$ c.	cents		cents	cents	$ c.	%
Galt c	30.47		60	2.5	0.7	0.83	10
Gamebridge			45	5.5	1.2	1.67	10
Georgetown T	34.83		60	2.5	0.9	0.83	10
Geraldton T			60	3.7	1.2	1.11	10
Glencoe	52.21		60	3.0	0.9	1.11	10
Glen Williams			60	2.9	1.0	0.83	10
Goderich T	39.06		60	2.7	0.9	0.83	10
Grand Valley	39.22		60	2.8	1.0	1.11	10
Granton	50.84		60	3.3	1.0	0.83	10
Gravenhurst T	29.85		60	1.8	0.7	0.83	10
Grimsby T	33.52		60	2.2	0.8	0.83	10
Guelph c	30.46		60	1.8	0.8	0.83	10
Hagersville	36.97		60	2.3	0.9	0.83	10
Hamilton c	28.73		60	2.0	0.7	0.83	10
Hanover T	30.20		60	2.4	1.0	0.83	10
Harriston	40.72		55	3.0	1.0	0.83	10
Harrow	39.46		60	3.2	1.0	0.83	10
Hastings	35.60		45	4.2	1.0	1.11	10
Havelock	38.34		60	2.8	1.0	0.83	10
Hensall	41.35		60	3.2	1.0	0.83	10
Hepworth			60	4.0	1.2	1.67	10
Hespeler T	30.45		60	2.7	0.8	0.83	10
Highgate	41.46		60	3.2	0.9	0.83	10
Hislop Townsite		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Holstein	40.10		60	3.0	1.0	1.11	10
Hudson Townsite		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Humberstone T	31.04		60	2.2	0.8	0.83	10
Huntsville T	32.47		60	2.0	0.9	0.83	10
Ingersoll T	31.97		60	2.3	0.8	0.83	10
Iroquois	29.75		60	2.5	1.0	0.83	10
Jarvis	43.68		60	2.8	0.9	0.83	10
Kearns Townsite		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kemptville	37.72		55	3.2	1.0	0.83	10
Kincardine T	35.06		50	3.1	1.0	1.11	10
King Kirkland Townsite		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.
†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.1	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	......	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.6	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	......	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	2.3	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.4	0.8	1.11	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.6	1.0	0.83	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.6	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	......	10
5.0	1.8	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
z5.0	1.5	0.35	0.83	10	14.50	1.00	0.9	0.56	0.25	......	10
5.0	2.0	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.6	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.6	0.7	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	3.6	1.0	1.11	10	37.00	1.35	3.8	2.5	0.33	......	10
5.0	2.3	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.7	0.9	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.5	1.0	1.67	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.8	0.7	0.83	10	29.00	1.35	2.6	1.7	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.5	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.8	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	2.0	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.7	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.6	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10

†2-wire service. ‡3-wire service. zMinimum 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Kingston c	28.74		50	1.8	0.6	0.83	10
Kingsville T	39.09		60	2.6	0.9	0.83	10
Kirkfield	52.24		50	5.0	1.2	1.66	10
Kitchener c	29.71		60	2.0	0.9	0.83	10
Lakefield	32.87		55	2.8	1.0	0.83	10
Lambeth	35.14		60	2.6	0.8	0.83	10
Lanark	46.89		50	3.8	1.2	0.83	10
Lancaster	52.18		60	3.0	1.0	0.83	10
Larder Lake				Special			
La Salle	40.97		60	3.8	1.2	1.39	10
Leamington T	39.11		60	2.0	0.8	0.83	10
Leaside T			50	1.8	1.0	0.83	10
Lindsay T	34.21		60	2.3	0.8	0.83	10
Listowel T	36.26		60	2.3	0.9	0.83	10
London c	30.47		60	2.2	0.75	0.83	10
London Twp.	33.70		60	2.9	1.0	1.11	10
Long Branch T	30.75		60	2.2	0.8	0.83	10
Lucan	36.30		60	2.9	0.9	0.83	10
Lucknow	37.40		55	2.7	1.0	1.39	10
Lynden	37.70		60	3.0	1.0	0.83	10
MacTier			50	4.7	1.6	1.66	10
Madoc	36.98		60	2.8	1.0	0.83	10
Markdale	32.32		60	2.0	1.0	0.83	10
Markham	32.98		60	2.8	1.0	0.83	10
Marmora	38.00		60	3.6	1.0	0.83	10
Martintown	32.20		50	3.0	1.0	1.11	10
Matachewan Townsite			50	4.5	1.0	1.11	10
Matheson		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Maxville	37.53		55	3.1	1.0	0.83	10
McGarry				Special			
Meaford T	33.61		60	2.6	1.0	0.83	10
Merlin	42.80		60	2.8	0.9	0.83	10
Merritton T	26.99		60	2.2	0.9	0.83	10
Midland T	29.10		60	2.3	0.8	0.83	10
Mildmay	34.99		50	2.8	1.0	1.39	10
Millbrook	41.02		60	4.6	1.0	0.83	10
Milton T	31.99		60	2.8	0.9	0.83	10
Milverton	37.19		60	2.5	1.0	0.83	10
Mimico T	29.29		60	2.2	0.9	0.83	10
Mitchell	34.39		60	2.8	1.0	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	1.9	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	4.5	1.0	1.66	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.4	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.3	1.0	0.83	10	38.00	1.35	4.0	2.6	0.33	......	10
5.0	2.5	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	......	10
	Spe	cial					Special				
5.0	3.3	1.0	1.39	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	1.7	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
z5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	......	10
5.0	1.9	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	1.7	0.3	0.83	10	14.00	1.00	0.83	0.53	0.25	......	10
5.0	2.5	0.6	1.11	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.4	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.2	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.5	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	4.4	1.0	1.66	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	2.5	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	1.8	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	2.4	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	3.2	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	3.0	1.0	1.66	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.8	1.0	0.83	10	39.00	1.35	4.1	2.7	0.33	......	10
	Spe	cial					Special				
5.0	2.2	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	2.3	0.6	0.83	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	1.6	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	2.4	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	4.2	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.3	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	2.2	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	1.9	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10

†2-wire service. ‡3-wire service. zMinimum 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Moorefield	47.13	....	60	3.2	1.0	1.39	10
Morrisburg	31.19	....	60	3.0	1.0	0.83	10
Mount Brydges	37.78	....	60	2.4	0.8	0.83	10
Mount Forest	36.80	....	60	2.8	1.0	0.83	10
Napanee T	31.99	....	60	2.8	0.9	0.83	10
Neustadt	30.25	....	60	3.0	1.0	1.39	10
Newboro	47.61	....	60	5.0	1.5	3.33	10
Newburg	45.87	....	60	4.0	1.0	1.39	10
Newbury	49.37	....	60	4.0	1.0	1.11	10
Newcastle	33.35	....	60	3.0	0.9	1.11	10
New Hamburg	36.12	....	60	2.7	0.9	0.83	10
Newmarket T	31.95	....	60	2.4	0.8	0.83	10
New Toronto T	32.50	....	60	2.2	0.8	0.83	10
Niagara Falls C	23.78	....	60	1.7	0.6	0.83	10
Niagara	29.19	....	60	2.4	1.0	0.83	10
Nipigon Twp.	30.16	....	60	2.8	1.0	1.11	10
North Bay C	....	....	60	2.3	0.9	0.83	10
North York Twp.	30.19	....	60	2.7	1.2	0.83	10
Norwich	34.18	....	60	2.5	0.8	0.83	10
Norwood	33.11	....	50	3.8	1.0	1.11	10
Oakville T	33.92	....	60	2.8	1.2	0.83	10
Oil Springs	44.27	....	60	2.6	0.9	1.11	10
Omemee	35.35	....	60	3.3	1.0	0.83	10
Orangeville T	34.16	....	55	2.8	1.0	1.11	10
Orono	36.41	....	60	4.5	1.0	1.11	10
Oshawa C	32.61	....	60	3.0	1.0	0.83	10
Ottawa C	27.53	33–66	60 60	2.0 1.0	0.5	0.83	10
Otterville	38.18	....	60	2.6	0.9	0.83	10
Owen Sound C	30.75	....	60	2.1	0.8	0.83	10
Paisley	37.26	....	50	4.0	1.0	1.39	10
Palmerston	39.00	....	60	2.6	1.0	1.11	10
Paris T	30.47	....	60	2.2	0.9	0.83	10
Parkhill	40.84	....	60	3.0	1.0	0.83	10
Parry Sound T	39.52	....	60	3.2	1.5	0.83	10
Penetanguishene T	31.07	....	60	2.4	0.9	0.83	10
Perth T	31.87	....	55	2.8	1.0	0.83	10
Peterborough C	29.10	....	60	2.0	0.9	0.83	10
Petrolia T	41.50	....	60	2.7	0.8	0.83	10
Picton T	34.19	....	60	2.0	0.8	0.83	10
Plattsville	42.51	....	60	3.0	1.0	0.83	10

"C"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.8	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.7	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.3	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	2.4	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.5	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	4.5	1.5	5.55	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.5	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	3.5	0.9	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.5	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.2	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.2	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	1.5	0.35	0.83	10	14.00	1.00	0.8	0.5	0.25	......	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.4	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.5	0.8	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	3.3	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.5	1.0	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.4	0.6	1.11	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.8	1.11	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	4.0	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.5	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	2.1	0.5	0.83	10	18.00	a1.00	1.8	1.2	0.15	......	b10
5.0	2.2	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	3.5	0.8	1.39	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	2.2	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	2.5	0.8	0.83	10	29.00	1.35	2.6	1.7	0.33	......	10
5.0	2.7	1.2	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	1.8	0.7	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	2.1	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.5	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	2.70	10

a—$1.00 per h.p. b—Local discount 15 & 10%.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Point Edward	44.64	....	60	3.0	1.0	0.83	10
Port Arthur........c	26.64	....	50	1.7	0.6	0.83	10
Port Carling	....	33–66	45	4.7	1.5	1.66	10
Port Colborne.......T	30.92	....	60	2.5	0.8	0.83	10
Port Credit.........T	30.88	....	60	2.1	0.9	0.83	10
Port Dalhousie	30.56	....	60	2.4	1.0	0.83	10
Port Dover.........T	38.14	....	60	2.2	0.8	0.83	10
Port Elgin	37.37	33–66	40	2.5	1.2	1.11	10
Port Hope..........T	33.20	....	60	2.2	0.9	0.83	10
Port McNicoll	32.08	....	60	3.3	1.0	0.83	10
Port Perry	37.05	....	50	4.0	1.2	1.11	10
Port Rowan	50.55	....	60	3.0	1.0	0.83	10
Port Stanley	41.95	....	60	2.6	0.9	0.83	10
Powassan	....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Prescott...........T	31.36	....	60	2.5	1.1	0.83	10
Preston............T	30.08	....	60	2.5	0.8	0.83	10
Priceville	43.36	....	60	3.5	1.0	1.39	10
Princeton	45.60	....	60	3.0	1.0	1.39	10
Queenston	26.74	....	60	2.3	0.9	0.83	10
Red Lake Townsite	....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Red Rock	27.63	....	60	3.0	1.1	†1.67 ‡2.22	10
Renfrew............T	36.37	....	45	3.5	1.0	0.83	10
Richmond	52.21	....	40	4.3	1.2	1.67	10
Richmond Hill	31.13	....	60	2.2	0.8	0.83	10
Ridgetown..........T	38.53	....	60	2.0	0.8	0.83	10
Ripley	42.97	....	55	4.8	1.0	1.67	10
Riverside...........T	37.28	....	60	2.8	0.9	0.83	10
Rockwood	35.93	....	60	2.8	1.0	0.83	10
Rodney	44.44	....	60	2.4	0.8	0.83	10
Rosseau	52.16	....	60	4.0	2.0	2.22	10
Russell	52.18	....	55	4.6	1.2	1.39	10
St. Catharines......c	27.03	....	60	1.8	0.8	0.83	10
St. Clair Beach	39.58	....	60	3.5	1.0	1.11	10
St. George	35.97	....	60	2.5	0.9	0.83	10
St. Jacobs	31.96	....	60	2.4	0.9	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service

Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.4	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
4.5	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	4.5	0.8	1.66	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	1.9	0.6	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	1.7	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.5	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	1.9	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.2	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	2.5	0.8	0.83	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	2.2	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.2	1.0	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.0	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.7	0.8	1.39	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	1.8	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.0	1.0	†1.67 ‡2.22	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	2.0	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	4.0	1.0	1.67	10	35.00	1.35	3.5	2.3	0.33	......	10
5.0	1.8	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	4.3	0.8	1.67	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.3	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.3	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	4.0	2.0	2.22	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	4.3	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	......	10
z5.0	1.5	⅓	a0.83	10	14.00	1.00	0.825	0.525	0.25	......	10
5.0	3.2	0.9	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10

†2-wire service. ‡3-wire service. a $0.83 or $0.83 per kw. zMinimum 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
St. Marys..........T	36.23	....	60	3.0	1.0	0.83	10
St. Thomas.........C	32.12	....	60	2.4	0.8	0.83	10
Sarnia.............C	38.67	....	60	2.5	0.8	0.83	10
Scarborough Twp....	31.41	....	60	2.3	0.9	0.83	10
Schreiber...........	27.14	....	60	5.0	2.0	3.89	10
Seaforth............	34.37	....	60	2.6	1.0	0.83	10
Shelburne..........	34.70	....	60	2.7	1.0	1.11	10
Simcoe.............T	31.72	....	60	2.0	0.7	0.83	10
Sioux Lookout......T	....	....	60	4.0	1.5	2.00	10
Smiths Falls........T	29.86	....	60	2.5	0.8	0.83	10
Smithville..........	35.25	....	60	3.0	0.9	0.83	10
Southampton........	36.71	....	40	3.2	1.0	1.11	10
Springfield..........	43.82	....	60	3.4	0.9	0.83	10
Stamford Twp.......	23.83	....	60	2.3	0.8	0.83	10
Stayner.............	32.61	....	55	3.0	1.0	0.83	10
Stirling..............	28.90	....	60	2.3	0.9	0.83	10
Stoney Creek........	33.58	....	60	3.5	1.1	0.83	10
Stouffville...........	33.35	....	60	2.1	0.8	0.83	10
Stratford...........C	32.28	....	60	2.6	0.9	0.83	10
Strathroy...........T	33.86	....	60	2.6	0.8	0.83	10
Streetsville..........	32.71	....	60	2.8	1.0	0.83	10
Sudbury............C	....	....	60	2.4	1.0	0.83	10
Sunderland..........	35.81	....	60	3.5	1.0	1.11	10
Sutton...............	39.51	....	60	2.7	1.0	1.11	10
Swansea............T	32.61	....	60	2.1	0.9	0.83	10
Tara.................	37.84	....	55	2.6	1.0	1.11	10
Tavistock...........	34.98	....	60	2.5	0.9	0.83	10
Tecumseh...........T	38.47	....	60	3.0	0.9	0.83	10
Teeswater...........	38.43	....	60	3.0	1.0	1.11	10
Terrace Bay.........	27.83	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Thamesford..........	38.21	....	60	2.7	0.9	0.83	10
Thamesville.........	40.85	....	60	2.1	0.8	0.83	10
Thedford............	45.05	....	60	3.6	1.0	0.83	10
Thornbury...........	41.27	....	60	3.5	1.0	0.83	10
Thorndale...........	37.80	....	60	3.8	1.0	0.83	10
Thornton............	52.15	....	60	3.8	1.0	1.39	10
Thorold............T	27.52	....	60	1.8	0.7	0.83	10
Tilbury.............T	38.34	....	60	2.0	0.75	0.83	10
Tillsonburg.........T	33.20	....	60	2.2	0.75	0.83	10
Toronto.............C	28.97	....	50	1.8	1.0	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discoun
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.5	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	1.7	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	1.9	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	5.0	2.0	3.89	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.3	0.9	1.11	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	3.5	2.0	a1.00	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.3	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	2.5	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.8	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.9	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	2.3	0.9	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	1.8	0.8	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	......	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.0	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.4	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	3.0	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	......	10
5.0	2.4	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	......	10
5.0	2.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	2.5	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	2.6	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	......	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.1	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	......	10
5.0	1.7	0.4	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	3.2	0.7	0.83	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	3.0	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	3.2	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	3.3	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	1.3	0.35	0.83	10	14.00	1.00	0.8	0.5	0.25	......	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	1.7	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
z5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	......	10
						b D.C.	3.2	1.2	0.60		

a Per 100 watts—min. $2.00, max. $5.00. z Minimum 500 watts.

b D.C.—Service charge $1.50 per kw per month for first 7½ kw plus $1.05 per kw for all additional demand.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Toronto Twp........	31.59	....	60	2.7	1.0	1.11	10
Tottenham..........	47.74	....	50	3.5	1.0	1.39	10
Trafalgar Twp.......	33.82	a28	60	3.5	1.5	b0.83	10
Trenton............T	27.57	....	60	1.8	0.6	0.83	10
Tweed..............	40.51	....	50	3.8	1.0	0.83	10
Uxbridge............	37.90	....	60	3.1	1.0	1.11	10
Victoria Harbour.....	37.23	....	60	2.4	0.9	1.11	10
Walkerton..........T	30.24	....	50	3.2	1.1	1.11	10
Wallaceburg........T	35.97	....	60	2.6	0.8	0.83	10
Wardsville...........	50.46	....	60	3.6	0.9	1.11	10
Warkworth..........	40.45	....	50	3.5	1.2	1.11	10
Waterdown..........	33.67	....	60	2.2	0.8	0.83	10
Waterford...........	32.99	....	60	2.1	0.8	0.83	10
Waterloo...........C	30.02	....	60	1.8	0.7	0.83	10
Watford.............	44.71	....	60	3.0	1.0	0.83	10
Waubaushene........	31.88	....	55	3.0	1.0	1.11	10
Welland............C	27.01	....	60	1.7	0.6	0.83	10
Wellesley............	37.98	....	60	2.8	1.0	0.83	10
Wellington..........	34.52	....	60	2.5	0.9	0.83	10
West Lorne..........	40.90	....	60	2.4	0.8	0.83	10
Weston............T	29.13	....	60	2.0	0.8	0.83	10
Westport............	52.22	....	50	4.0	1.0	1.94	10
Wheatley............	44.27	....	60	2.5	0.8	0.83	10
Whitby............T	32.16	....	60	2.5	0.9	0.83	10
Wiarton............T	39.06	....	50	2.8	0.9	1.11	10
Williamsburg........	31.68	....	60	2.0	0.8	0.83	10
Winchester..........	34.80	....	60	2.3	1.0	0.83	10
Windermere.........	52.24	....	60	4.0	1.5	2.22	10
Windsor............C	33.78	....	60	2.6	0.7	0.83	10
Wingham...........T	35.71	....	50	3.2	1.1	1.11	10
Woodbridge.........	32.04	....	60	2.4	0.8	0.83	10
Woodstock.........C	30.56	....	60	2.3	0.75	0.83	10
Woodville...........	40.39	....	50	3.8	1.0	1.11	10
Wyoming............	45.71	....	60	3.0	0.9	0.83	10
York Twp...........	28.77	....	60	2.0	0.8	0.83	10
Zurich..............	47.61	....	60	3.6	1.0	0.83	10

a Service charge in former Area No. 2. b Under 10 kw, 83 cents; over 10 kw $2.22 in former Area No. 1; under 10 kw, $1.11; over 10 kw $2.22 in former Area No. 2.

"C"—Concluded

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%
5.0	2.2	0.6	1.11	10	20.00	1.20	1.4	0.9	0.30	......	10
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	2.8	0.7	0.83	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	1.6	0.3	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	3.3	1.0	0.83	10	29.00	1.35	2.6	1.7	0.33	......	10
5.0	2.7	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	2.0	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	2.4	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	......	10
5.0	3.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	3.0	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	1.6	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	......	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	2.6	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	......	10
5.0	2.2	1.0	1.11	10	33.00	1.35	3.2	2.1	0.33	......	10
5.0	1.5	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	......	10
5.0	2.4	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	......	10
5.0	2.3	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	1.5	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	3.5	1.0	1.94	10	39.00	1.35	4.1	2.7	0.33	......	10
5.0	2.4	0.5	0.83	10	25.00	1.35	2.0	1.3	0.33	......	10
5.0	2.0	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	......	10
5.0	2.3	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	......	10
5.0	2.0	0.8	0.83	10	32.00	1.35	3.1	2.0	0.33	......	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	......	10
5.0	4.0	1.5	2.22	10	39.00	1.35	1.1	2.7	0.33	......	10
5.0	2.1	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	2.6	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	2.0	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	......	10
5.0	2.8	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	......	10
5.0	2.5	0.6	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	......	10
5.0	3.1	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	......	10

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

The following tabulation gives much information that is useful and interesting from the standpoint of consumers. Statement "D" lists the revenue, the consumption, the number of consumers, unit average costs and consumptions and other pertinent data for each main class of service in each urban municipal utility receiving power at cost from the Commission.

In the past the Commission has extended the benefits of electrical service to every community that could be reached economically by transmission lines. This practice is still the Commission's policy. Some municipalities are so distant from a source of supply and others have such small power requirements that the charge for delivering power is unavoidably higher than for communities more favourably situated. Even where difficult conditions obtain, however, service is provided if the consumers are able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 35 kilowatts. The Commission serves certain large power consumers direct on behalf of the systems of municipalities.

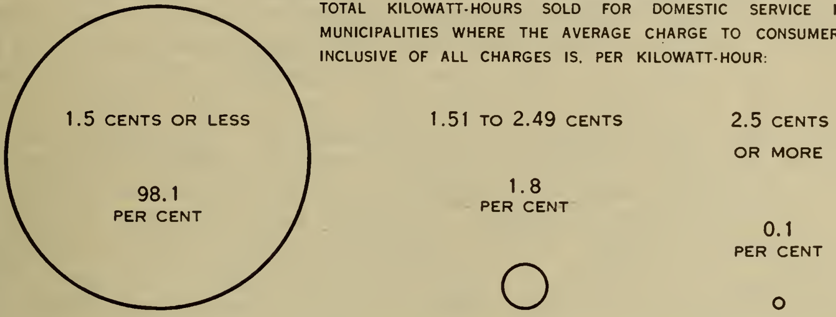
It should be kept in mind that the revenues reported in Statement "D", and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE TO CONSUMERS
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

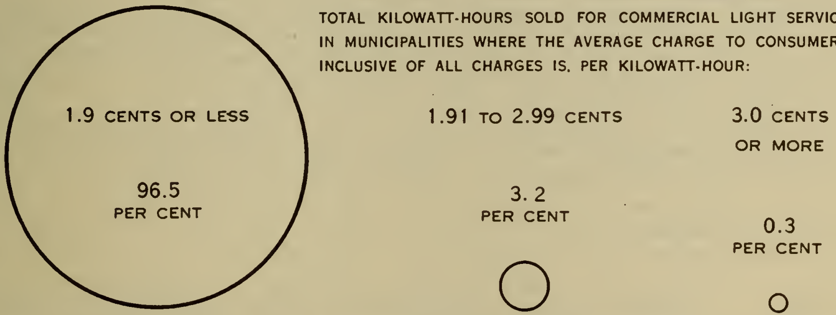
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



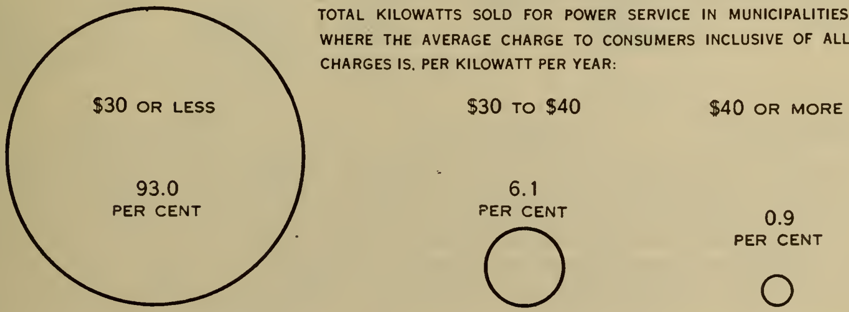
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATTS SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT PER YEAR:



For domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

For power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in kilowatts (or horsepower)—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which determines the energy consumption in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per kilowatt to the consumer will vary with the consumers' average number of hours use of the power per month. A greater average energy consumption per kilowatt increases the average cost per kilowatt and decreases the average cost per kilowatt-hour to the consumer, and *vice versa.**

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*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	$	kw-hr.	cents	$
Residence.........	1,000,000	4	40,000	3,000,000	3	90,000
Power.............	9,000,000	1	90,000	7,000,000	0.75	52,500
Total...........	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A *the rates* both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rates schedules* of Statement "C" should be employed and not statistics of average revenues per kilowatt-hour.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as given in Statement "C", or on the statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) surburban areas densely populated; (iii) towns of 2,000 to 10,000 population; or (iv) small towns less than 2,000 population, villages, and suburban areas in townships. The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. Of the 121 cities, towns and suburban areas with populations of 2,000 or more—in which over 90 per cent of the domestic consumers of the undertaking are served—115 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, 84 in excess of 2,500 kilowatt-hours and 27 in excess of 3,500 kilowatt-hours. In addition 185 smaller urban municipalities have an average annual consumption per domestic consumer of 1,000 kilowatt-hours or more, including 78 in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use. The cost of electric cooking is within reach of most of the domestic consumers in Ontario. Low flat rates are also available for continuous electric water heaters.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Population	Domestic service Revenue	Domestic service Consumption	Domestic service Number of consumers	Domestic service Average monthly consumption	Domestic service Average monthly bill	Domestic service Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Belleville	S.O.	17,637	157,857.47	22,900,478	4,990	382	2.64	0.69
Brantford	S.O.	35,807	249,972.77	27,865,398	9,458	246	2.20	0.89
Chatham	S.O.	20,263	143,156.47	10,540,673	5,394	163	2.21	1.36
Fort William	T.B.	33,220	340,059.52	63,358,028	9,164	576	3.09	0.54
Galt	S.O.	16,952	148,077.05	15,299,980	5,052	252	2.44	0.97
Guelph	S.O.	25,962	191,764.24	20,091,338	6,646	252	2.40	0.95
Hamilton	S.O.	181,623	1,207,421.32	131,744,804	50,692	217	1.98	0.91
Kingston	S.O.	31,375	284,300.49	37,835,462	9,466	333	2.50	0.75
Kitchener	S.O.	40,640	350,619.81	38,062,359	10,518	302	2.78	0.92
London	S.O.	91,021	728,497.57	81,612,467	23,822	285	2.55	0.89
Niagara Falls	S.O.	21,674	147,450.40	19,520,578	5,657	288	2.17	0.76
North Bay	N.O.P.	18,057	156,787.92	15,411,739	4,187	307	3.12	1.02
Oshawa	S.O.	28,037	326,652.87	28,425,907	7,909	299	3.44	1.15
Ottawa	S.O.	161,455	787,031.82	96,551,907	17,402	462	3.77	0.82
Owen Sound	S.O.	16,503	132,206.17	12,803,459	4,405	242	2.50	1.03
Peterborough	S.O.	34,948	300,931.73	36,174,642	9,189	328	2.73	0.83
Port Arthur	T.B.	29,165	247,865.23	36,021,320	8,176	367	2.53	0.69
St. Catharines	S.O.	35,436	250,979.25	28,706,353	10,089	237	2.07	0.88
St. Thomas	S.O.	19,135	172,579.90	19,157,807	5,176	308	2.78	0.90
Sarnia	S.O.	23,284	175,460.63	15,111,694	6,273	201	2.33	1.16
Stratford	S.O.	18,548	193,022.44	18,240,787	5,014	303	3.21	1.06
Sudbury	N.O.P.	41,206	373,634.46	31,441,007	9,764	268	3.18	1.18
Toronto	S.O.	680,000	4,896,786.31	532,443,554	156,848	283	2.60	0.92
Toronto D.C. & 60 cycle*	......	....	3,407.15	232,810	115	169	2.47	1.46
Waterloo	S.O.	10,680	91,515.48	11,618,818	2,864	338	2.66	0.79
Welland	S.O.	16,004	64,948.56	7,049,991	3,572	164	1.52	0.91
Windsor	S.O.	118,702	865,239.65	81,375,559	28,763	236	2.25	0.95
Woodstock	S.O.	13,533	120,482.02	13,261,627	4,109	269	2.44	0.91

Group II—VOTED AREAS adjacent to

Brantford Township	S.O.	7,200	96,213.69	8,392,202	2,589	270	3.10	1.15
East York Township	S.O.	53,552	472,336.93	43,775,561	15,099	242	2.61	1.08
Etobicoke Township	S.O.	30,769	446,127.89	47,923,960	11,367	351	3.27	0.93
London Township	S.O.	2,025	24,333.48	2,176,857	671	270	3.02	1.12
North York Township	S.O.	37,932	579,010.52	50,514,231	17,520	240	2.75	1.15
Scarborough Township	S.O.	34,981	278,819.34	25,623,193	10,099	211	2.30	1.09
Stamford Township	S.O.	12,834	114,838.53	13,316,103	3,692	301	2.59	0.86
Toronto Township	S.O.	16,399	181,419.86	15,649,224	4,773	273	3.17	1.16
York Township	S.O.	90,108	694,355.59	72,977,166	25,437	239	2.27	0.95

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*This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately-owned company. It does not include street railway power.

"D"

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

Population, 10,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	**Consumption**	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	**Revenue**	Number of consumers	Average monthly kilowatts	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
83,611.07	7,779,991	714	908	9.76	1.07	71,728.71	126	3,717.7	5,830
124,392.48	12,224,235	1,538	662	6.74	1.02	400,515.98	252	18,623.6	11,248
137,519.06	9,251,753	995	775	11.52	1.49	164,433.32	157	6,638.8	6,546
149,173.62	17,408,401	1,350	1,074	9.21	0.86	128,703.99	161	7,414.0	10,675
74,474.60	4,568,179	590	645	10.52	1.63	198,990.56	160	8,996.4	5,802
69,730.95	5,973,922	817	609	7.11	1.17	197,021.55	172	9,438.5	7,635
631,410.18	59,491,899	6,398	775	8.22	1.06	3,325,096.92	1,247	142,191.2	58,337
161,934.92	16,375,499	1,191	1,146	11.33	0.99	215,173.16	198	9,315.0	10,855
182,499.33	13,775,583	1,298	884	11.72	1.33	601,251.50	348	23,181.8	12,164
294,301.65	25,237,684	2,402	876	10.21	1.17	598,091.96	488	26,236.8	26,712
88,033.15	8,446,294	901	781	8.14	1.04	130,282.51	130	6,129.6	6,688
82,411.84	6,122,505	775	658	8.86	1.35	75,210.85	102	2,400.5	5,064
109,848.14	6,365,124	873	607	10.48	1.72	432,544.12	147	14,371.0	8,929
373,257.18	26,610,674	1,813	1,223	17.16	1.40	129,483.67	237	5,620.9	19,452
71,933.13	4,922,794	658	623	9.11	1.46	105,244.54	123	5,283.9	5,186
128,616.91	9,845,481	1,284	657	8.58	1.31	297,440.01	206	12,502.4	10,643
140,632.35	14,117,250	1,153	1,020	10.16	1.00	369,513.88	148	18,554.5	9,477
119,725.99	10,794,504	1,302	691	7.66	1.11	453,069.34	241	21,916.5	11,632
72,776.24	6,510,347	650	835	9.33	1.17	113,302.34	93	5,129.0	5,919
88,152.57	6,448,120	778	691	9.44	1.37	295,760.46	107	9,198.6	7,158
64,305.05	4,389,931	670	546	8.00	1.47	87,475.40	137	3,821.0	5,821
183,813.69	10,959,354	1,314	695	11.67	1.68	68,053.52	155	2,187.7	11,233
3,345,543.23	269,148,166	25,333	885	11.00	†1.24	5,542,136.85	5,251	207,556.6	187,432
33,704.77	1,017,530	217	391	12.94	3.31	214,987.01	588	6,963.9	920
32,336.41	2,883,853	302	796	8.92	1.12	103,991.06	85	3,524.2	3,251
53,046.81	4,849,483	569	710	7.77	1.09	193,845.16	99	8,898.6	4,240
494,312.17	37,145,329	3,771	821	10.92	1.33	909,690.63	604	39,328.1	33,138
68,335.62	5,331,274	552	805	10.32	1.28	127,539.00	117	5,887.7	4,778

cities and which are predominantly urban.

13,974.91	779,304	119	546	9.79	1.79	14,935.63	17	539.8	2,725
50,808.75	3,887,020	611	530	6.93	1.31	75,581.52	83	3,396.9	15,793
85,434.23	6,240,406	717	725	9.93	1.37	130,390.46	129	5,167.1	12,213
2,991.49	192,959	19	846	13.12	1.55	1,417.46	4	36.1	694
87,348.93	4,869,360	816	497	8.92	1.80	136,246.94	134	5,822.5	18,470
59,622.98	4,346,208	729	497	6.82	1.38	70,954.06	108	2,776.2	10,936
27,350.12	1,801,799	248	605	9.19	1.52	28,009.44	28	1,291.1	3,968
37,577.39	2,361,174	365	539	8.58	1.59	80,798.76	85	2,966.3	5,223
129,771.52	9,416,916	1,474	532	7.34	1.38	238,737.89	286	9,946.2	27,197

NOTE—The above groups comprising 27 cities and 9 suburban areas utilize about 80 per cent of the power distributed by the Commission to Ontario municipalities.

†Does not include street railway power.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—TOWNS

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Acton	S.O.	2,412	24,574.01	2,448,273	766	266	2.67	1.00
Alexandria	S.O.	2,194	13,963.18	855,914	540	132	2.15	1.63
Alliston	S.O.	2,009	19,595.22	1,387,555	517	224	3.16	1.40
Almonte	S.O.	2,623	22,972.98	2,200,298	723	254	2.65	1.04
Amherstburg	S.O.	3,313	35,564.18	3,458,820	897	321	3.30	1.03
Arnprior	S.O.	4,552	30,304.80	2,632,711	1,091	201	2.32	1.15
Aurora	S.O.	3,392	37,155.56	3,496,742	962	303	3.22	1.06
Aylmer	S.O.	3,280	23,723.40	2,315,244	899	215	2.20	1.02
Barrie	S.O.	11,914	121,051.20	12,165,045	3,098	327	3.20	0.98
Blenheim	S.O.	2,272	12,780.39	895,733	686	109	1.55	1.42
Bowmanville	S.O.	4,315	50,804.89	4,397,308	1,517	241	2.78	1.15
Brampton	S.O.	7,124	73,213.88	7,464,770	2,003	311	3.05	0.98
Brockville	S.O.	11,852	92,279.03	10,162,516	3,634	233	2.12	0.91
Burlington	S.O.	5,105	64,662.17	5,035,994	1,509	278	3.57	1.30
Carleton Place	S.O.	4,408	32,736.09	2,937,761	1,248	196	2.19	1.10
Clinton	S.O.	2,409	23,700.99	2,546,092	716	296	2.75	0.93
Cobourg	S.O.	6,459	64,767.09	5,653,526	1,842	256	2.93	1.14
Collingwood	S.O.	6,729	49,814.78	4,087,922	2,020	176	2.06	1.22
Delhi	S.O.	2,410	21,917.53	1,528,800	770	165	2.37	1.44
Dundas	S.O.	6,089	38,772.62	3,468,913	1,800	161	1.80	1.12
Dunnville	S.O.	3,997	18,964.58	1,571,167	1,216	108	1.30	1.21
Durham	S.O.	2,158	13,238.75	963,996	548	147	2.01	1.40
Elmira	S.O.	2,330	23,465.86	2,256,825	678	277	2.88	1.04
Essex	S.O.	2,253	14,461.07	1,113,032	709	131	1.70	1.30
Exeter	S.O.	2,364	29,284.25	2,537,880	752	281	3.25	1.15
Fergus	S.O.	3,195	30,035.50	2,534,120	923	229	2.71	1.18
Forest Hill	S.O.	15,629	244,649.48	26,813,967	4,276	523	4.77	0.91
Georgetown	S.O.	3,150	40,682.65	3,779,323	1,122	281	3.02	1.08
Goderich	S.O.	*4,906	53,329.21	4,534,426	1,614	234	2.75	1.18
Gravenhurst	S.O.	*3,431	23,535.67	2,744,164	919	249	2.13	0.86
Grimsby	S.O.	2,457	20,767.82	2,098,542	819	214	2.11	0.99
Hanover	S.O.	3,646	36,629.56	2,762,852	1,040	221	2.94	1.33
Hespeler	S.O.	3,614	28,597.39	2,504,459	951	219	2.51	1.15
Humberstone	S.O.	3,411	17,378.63	1,316,180	913	120	1.59	1.32
Huntsville	S.O.	*3,180	25,992.69	2,753,915	833	276	2.60	0.94
Ingersoll	S.O.	6,234	47,169.53	4,197,835	1,765	198	2.23	1.13
Kincardine	S.O.	*2,857	24,417.70	1,734,741	855	169	2.38	1.41
Kingsville	S.O.	*2,489	20,646.02	1,581,137	806	163	2.13	1.31
Leamington	S.O.	*7,221	42,469.07	3,717,695	2,033	152	1.74	1.14
Lindsay	S.O.	8,904	82,332.12	7,879,370	2,617	251	2.62	1.04

*Does not include summer population.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

population 2,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
9,730.88	673,962	109	515	7.44	1.40	37,657.73	22	1,446.8	897
11,998.00	557,366	140	332	7.14	2.15	6,082.81	17	158.6	697
10,619.65	504,017	134	313	6.60	2.10	8,742.36	24	284.4	675
9,319.36	528,759	116	380	6.69	1.76	21,253.69	26	775.9	865
15,895.92	1,367,604	187	609	7.08	1.16	14,096.19	22	553.1	1,106
17,111.37	1,008,373	178	472	8.01	1.70	26,826.17	29	1,136.4	1,298
12,882.95	1,045,484	144	605	7.46	1.23	29,714.53	29	1,128.5	1,135
17,049.42	1,290,792	198	543	7.18	1.32	22,533.67	27	907.4	1,124
59,064.05	4,172,721	496	701	9.95	1.42	58,328.20	81	2,369.9	3,675
12,957.87	755,517	163	386	6.62	1.72	11,236.36	23	398.5	872
17,007.40	942,616	199	395	7.12	1.80	71,697.16	32	2,944.1	1,748
27,042.02	1,967,631	310	529	7.27	1.37	30,635.66	68	1,370.2	2,381
37,035.86	3,399,784	467	607	6.61	1.09	135,740.84	86	5,555.9	4,187
27,345.76	1,666,739	175	794	13.02	1.60	23,986.72	24	606.6	1,708
14,416.65	821,327	218	314	5.51	1.76	35,017.71	21	1,385.4	1,487
11,707.86	791,142	150	440	6.50	1.48	8,340.45	21	336.2	887
29,167.22	1,777,682	269	551	9.03	1.64	46,292.72	65	1,732.3	2,176
22,327.79	1,475,013	337	365	5.52	1.51	43,680.84	62	1,955.1	2,419
18,576.55	877,496	223	328	6.94	2.12	8,074.86	22	279.5	1,015
22,384.22	1,679,856	256	547	7.29	1.33	51,397.93	46	2,514.2	2,102
18,349.28	1,384,372	298	387	5.13	1.33	25,277.22	34	1,107.2	1,548
7,852.70	426,578	122	291	5.36	1.80	7,482.28	18	244.0	688
14,887.23	969,527	142	569	8.74	1.54	34,579.14	28	1,210.3	848
13,092.08	1,021,613	149	571	7.32	1.28	10,830.02	22	522.1	880
14,216.21	866,055	155	466	7.64	1.64	8,093.09	22	407.5	929
11,202.93	696,668	128	454	7.29	1.61	27,226.31	17	1,035.4	1,068
48,627.90	3,367,926	372	754	10.89	1.44	6,192.87	39	264.5	4,687
14,610.70	901,697	167	450	7.29	1.62	43,048.38	33	1,623.2	1,322
25,778.81	1,602,769	301	444	7.14	1.61	25,658.33	44	990.2	1,959
13,973.18	1,457,051	146	832	7.98	0.96	19,592.80	23	876.3	1,088
13,896.28	1,030,295	150	572	7.72	1.35	13,325.04	21	498.7	990
12,664.02	752,684	174	361	6.07	1.68	33,455.44	34	1,230.2	1,248
11,281.00	672,185	114	491	8.25	1.68	84,586.45	32	3,103.1	1,119
8,504.09	622,563	171	303	4.14	1.37	7,551.97	15	320.1	1,099
21,223.17	1,579,645	162	813	10.92	1.34	22,888.27	23	914.4	1,018
25,529.96	1,806,645	251	600	8.48	1.41	60,408.48	52	2,611.7	2,068
12,276.83	562,067	156	300	6.56	2.18	19,802.42	24	769.5	1,035
13,636.94	816,471	117	582	9.71	1.67	6,604.91	25	288.2	948
27,565.89	2,087,270	366	475	6.28	1.32	37,299.31	51	1,488.3	2,450
50,602.01	3,104,690	403	642	10.46	1.63	47,034.97	82	2,053.9	3,102

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—TOWNS

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Listowel	S.O.	2,929	29,411.10	2,689,789	972	231	2.52	1.09
Long Branch	S.O.	6,677	60,971.95	6,671,741	2,121	262	2.40	0.91
Meaford	S.O.	2,923	24,369.60	1,744,832	927	157	2.19	1.40
Merritton	S.O.	3,868	30,267.40	3,318,460	1,214	228	2.08	0.91
Midland	S.O.	7,078	56,577.94	5,388,345	1,980	227	2.38	1.05
Milton	S.O.	2,316	22,394.35	1,917,437	660	242	2.83	1.17
Mimico	S.O.	10,164	90,844.13	9,328,176	2,640	294	2.87	0.97
Napanee	S.O.	3,554	38,944.48	3,471,791	1,081	269	3.01	1.12
Newmarket	S.O.	4,521	44,736.09	4,322,318	1,351	267	2.76	1.04
New Toronto	S.O.	9,156	70,176.62	7,276,426	2,338	259	2.50	0.96
Oakville	S.O.	5,346	46,793.54	3,187,345	1,683	158	2.32	1.50
Orangeville	S.O.	3,073	27,069.18	2,052,540	863	198	2.61	1.32
Paris	S.O.	4,980	37,284.48	3,466,084	1,321	219	2.35	1.07
Parry Sound	S.O.	4,627	40,981.85	2,309,824	1,389	139	2.46	1.80
Penetanguishene	S.O.	4,498	22,023.06	1,676,443	982	187	1.42	1.33
Perth	S.O.	4,666	42,286.87	3,379,957	1,317	214	2.68	1.25
Petrolia	S.O.	3,027	18,426.08	1,202,434	877	114	1.75	1.54
Picton	S.O.	3,915	37,662.01	3,831,535	1,265	252	2.48	0.98
Port Colborne	S.O.	7,613	39,132.21	2,921,365	1,797	135	1.81	1.34
Port Credit	S.O.	2,696	30,856.97	3,507,070	836	350	3.08	0.88
Port Dalhousie	S.O.	*2,348	30,824.73	3,289,258	816	336	3.15	0.94
Port Dover	S.O.	*2,201	16,962.84	1,299,273	939	115	1.51	1.31
Port Elgin	S.O.	*2,486	20,627.00	1,205,797	631	159	2.72	1.70
Port Hope	S.O.	5,724	58,751.97	5,960,127	1,800	276	2.72	0.98
Prescott	S.O.	3,413	30,642.22	2,581,767	882	244	2.90	1.19
Preston	S.O.	7,239	56,047.03	5,381,720	1,903	236	2.45	1.04
Renfrew	S.O.	6,434	50,119.01	3,484,272	1,802	161	2.32	1.44
Ridgetown	S.O.	2,209	11,539.50	871,428	707	103	1.36	1.32
Riverside	S.O.	6,857	65,640.91	5,424,562	2,145	211	2.55	1.21
St. Marys	S.O.	3,929	46,463.00	4,112,885	1,186	290	3.26	1.12
Simcoe	S.O.	6,908	37,131.96	3,505,228	1,947	150	1.59	1.06
Sioux Lookout	N.O.P.	2,155	28,697.28	1,508,546	660	189	3.57	1.90
Smiths Falls	S.O.	8,335	77,102.55	7,841,147	2,378	275	2.70	0.98
Strathroy	S.O.	3,333	36,294.93	3,469,400	1,070	270	2.83	1.05
Swansea	S.O.	7,360	88,031.68	9,952,812	2,325	357	3.16	0.88
Tecumseh	S.O.	*3,343	21,950.45	1,402,130	892	131	2.05	1.56
Thorold	S.O.	6,173	28,694.50	3,374,883	1,521	185	1.57	0.85
Tilbury	S.O.	2,205	14,544.24	1,316,438	708	155	1.71	1.10
Tillsonburg	S.O.	4,727	31,732.97	2,661,646	1,483	150	1.78	1.19
Trenton	S.O.	9,337	68,552.74	8,996,209	2,444	306	2.33	0.75
Walkerton	S.O.	2,979	29,764.20	1,930,743	824	195	3.01	1.54
Wallaceburg	S.O.	6,920	43,804.27	3,106,109	1,924	135	1.90	1.41
Weston	S.O.	7,219	81,961.28	10,326,052	2,102	409	3.25	0.79
Whitby	S.O.	4,638	49,633.00	4,704,819	1,300	301	3.18	1.05
Wingham	S.O.	2,368	26,881.01	1,987,242	725	228	3.09	1.35

*Does not include summer population.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

population 2,000 or more—Continued

Commercial Light service						Power service			
Revenue	Consumption	Number of con-sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con-sumers	Average monthly kilo-watts	Total number of con-sumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
18,283.62	1,104,559	192	479	7.94	1.66	22,623.45	34	905.9	1,198
14,808.44	1,161,670	211	459	5.85	1.27	29,805.81	23	1,294.2	2,355
15,090.17	847,879	187	378	6.72	1.78	18,274.42	26	640.4	1,140
7,380.60	451,885	83	454	7.41	1.63	242,657.02	22	9,717.3	1,319
24,338.33	1,699,277	248	571	8.18	1.43	87,142.64	66	4,043.4	2,294
10,865.11	717,030	124	502	7.30	1.52	37,470.84	21	1,209.8	805
20,198.62	1,570,447	215	609	7.83	1.29	24,022.41	40	945.5	2,895
27,221.09	1,654,009	241	571	9.41	1.64	16,800.09	30	645.9	1,352
21,320.87	1,174,930	216	453	8.23	1.81	28,481.57	44	1,026.4	1,611
29,368.31	2,764,038	288	800	8.50	1.06	257,706.56	56	9,944.3	2,682
37,283.78	1,825,695	244	624	12.73	2.00	66,016.14	66	2,551.2	1,993
18,981.17	1,108,975	206	449	7.68	1.71	8,623.86	35	476.3	1,104
12,537.22	992,433	202	409	5.17	1.26	30,595.64	31	1,382.9	1,554
27,965.74	1,276,315	272	391	8.57	2.20	10,562.58	21	371.5	1,682
12,104.49	767,348	136	470	7.42	1.58	26,395.38	23	935.6	1,141
23,519.44	1,427,501	237	501	8.27	1.65	22,670.30	35	984.9	1,589
12,777.70	746,072	194	320	5.49	1.72	24,481.38	63	756.2	1,134
26,418.99	1,982,503	275	601	8.00	1.33	14,522.71	51	726.1	1,591
26,491.66	1,727,440	274	525	8.06	1.53	24,528.81	32	937.6	2,103
11,486.66	885,621	123	600	7.78	1.29	9,784.16	17	342.6	976
6,860.63	513,703	79	542	7.24	1.34	8,970.13	14	514.2	909
10,113.55	820,732	163	420	5.17	1.23	9,456.90	22	342.7	1,124
11,496.53	550,844	148	310	6.47	2.10	5,075.22	11	253.6	790
24,011.13	1,648,256	244	563	8.20	1.45	61,891.04	47	2,400.8	2,091
15,763.29	916,397	169	452	7.77	1.72	12,566.20	27	522.6	1,078
24,685.04	1,764,427	251	586	8.20	1.40	69,936.19	60	3,202.3	2,214
22,434.55	1,362,622	257	442	7.27	1.65	52,582.37	59	1,890.4	2,118
10,474.69	657,262	164	334	5.32	1.59	8,898.10	25	410.1	896
11,325.02	769,378	104	616	9.07	1.47	9,470.42	15	316.8	2,264
17,687.75	927,199	204	379	7.22	1.91	29,734.81	41	1,061.6	1,431
40,055.89	3,584,311	446	670	7.48	1.12	38,637.23	70	1,557.7	2,463
21,395.08	804,040	121	554	14.73	2.60	3,693.79	8	96.6	789
36,365.42	2,764,497	350	658	8.66	1.32	37,953.92	47	1,561.5	2,775
18,271.25	1,083,800	211	428	7.22	1.69	20,734.88	38	976.7	1,319
15,759.22	1,076,006	144	623	9.12	1.46	28,883.00	24	1,132.3	2,493
7,772.35	473,395	87	453	7.44	1.64	8,138.95	8	193.2	987
11,233.74	1,134,999	178	531	5.26	0.99	65,017.37	33	2,614.8	1,732
10,504.89	605,610	152	332	5.76	1.73	20,207.36	20	963.1	880
27,867.27	2,018,274	330	510	7.04	1.38	27,702.53	48	1,192.7	1,861
27,717.68	2,378,395	314	631	7.35	1.16	102,063.51	61	3,814.4	2,819
19,826.62	1,052,066	176	498	9.39	1.88	16,694.12	21	356.6	1,021
28,118.54	2,000,086	309	539	7.58	1.41	194,105.04	66	6,490.5	2,299
22,227.36	1,820,525	356	426	5.20	1.22	73,589.28	46	3,097.3	2,504
18,557.90	1,221,485	196	519	7.89	1.52	22,231.39	34	820.3	1,530
16,167.76	768,556	157	408	8.55	2.10	24,092.38	26	715.4	908

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population)

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Agincourt	S.O.	P.V.	9,552.67	839,198	228	307	3.49	1.1
Ailsa Craig	S.O.	501	4,283.70	328,830	166	165	2.15	1.3
Alvinston	S.O.	668	4,403.34	186,380	236	66	1.55	2.4
Ancaster Township	S.O.	V.A.	18,632.38	1,561,676	442	294	3.51	1.2
Apple Hill	S.O.	P.V.	1,862.25	68,470	75	76	2.07	2.7
Arkona	S.O.	389	4,468.84	250,445	135	155	2.76	1.8
Arthur	S.O.	1,192	8,920.49	443,581	295	125	2.52	2.0
Athens	S.O.	760	7,509.77	268,329	227	99	2.76	2.8
Ayr	S.O.	837	8,038.52	614,990	256	200	2.62	1.3
Baden	S.O.	P.V.	5,947.73	523,580	181	241	2.74	1.1
Bath	S.O.	*368	4,861.66	174,050	94	154	4.31	2.8
Beachville	S.O.	P.V.	6,149.23	502,800	196	214	2.61	1.2
Beamsville	S.O.	1,591	17,207.98	2,007,588	492	340	2.91	0.9
Beaverton	S.O.	*943	10,599.10	684,703	392	146	2.25	1.5
Beeton	S.O.	579	5,298.73	282,811	168	140	2.63	1.9
Belle River	S.O.	1,250	9,398.33	576,434	415	116	1.89	1.6
Bloomfield	S.O.	622	4,901.21	359,336	204	146	2.00	1.4
Blyth	S.O.	690	5,597.72	342,610	213	134	2.19	1.6
Bobcaygeon	S.O.	*1,080	13,700.96	464,637	435	89	2.62	2.9
Bolton	S.O.	796	8,002.04	672,120	225	249	2.96	1.0
Bothwell	S.O.	704	3,576.63	256,380	212	101	1.41	1.4
Bradford	S.O.	1,373	12,976.75	810,626	390	173	2.77	1.6
Braeside	S.O.	420	2,501.22	121,355	108	94	1.93	2.1
Brechin	S.O.	P.V.	2,281.29	100,080	58	144	3.28	2.8
Bridgeport	S.O.	P.V.	8,062.91	601,770	253	198	2.66	1.3
Brigden	S.O.	P.V.	2,825.24	143,600	139	86	1.69	2.0
Brighton	S.O.	1,947	15,971.49	1,116,261	562	165	2.37	1.4
Brussels	S.O.	772	7,627.60	458,370	283	135	2.25	1.7
Burford	S.O.	P.V.	8,533.23	860,006	269	266	2.64	1.0
Burgessville	S.O.	P.V.	2,586.67	152,987	67	190	3.22	1.7
Caledonia	S.O.	1,500	10,152.93	739,289	503	122	1.68	1.4
Campbellville	S.O.	P.V.	2,170.78	153,145	64	199	2.83	1.4
Cannington	S.O.	818	8,228.26	506,416	302	140	2.27	1.6
Capreol	N.O.P.	1,775	19,064.45	1,292,675	517	208	3.07	1.5
Cardinal	S.O.	1,711	12,632.00	1,005,680	440	190	2.39	1.3

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*Does not include summer population.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
3,182.80	157,753	35	376	7.58	2.0	5,693.59	6	183.6	269
1,610.17	79,713	54	123	2.48	2.0	2,131.59	5	74.9	225
3,662.15	162,586	57	238	5.30	2.2	1,575.76	5	54.4	298
6,127.99	285,148	52	457	9.82	2.1	1,808.96	11	75.8	505
1,103.51	48,816	25	163	3.68	2.3	329.97	1	14.4	101
2,317.23	87,338	39	187	4.95	2.7	148.15	1	3.7	175
7,982.79	357,528	84	355	7.92	2.2	1,900.74	8	85.0	387
3,468.79	115,413	43	224	6.72	3.0	666.65	2	27.1	272
3,591.79	182,294	50	304	5.99	2.0	4,812.36	9	185.9	315
2,364.15	162,050	33	409	5.97	1.5	11,820.72	3	455.4	217
1,095.87	38,410	17	188	5.39	2.9	213.44	1	19.4	112
876.10	46,464	26	149	2.81	1.9	20,475.75	4	636.4	226
6,778.83	492,502	90	456	6.28	1.4	3,185.93	9	150.3	591
4,995.14	309,078	74	348	5.63	1.6	3,553.09	11	231.7	477
3,914.65	145,530	41	298	7.96	2.7	1,354.43	6	48.9	215
5,022.88	358,186	63	474	6.64	1.4	2,437.62	6	70.1	484
3,265.44	163,860	51	268	5.33	2.0	1,928.16	8	75.7	263
3,277.07	161,421	58	232	4.71	2.0	5,925.00	7	147.4	278
8,493.73	271,868	89	255	7.95	3.1	1,049.19	5	29.3	529
3,913.28	181,050	54	279	6.04	2.2	3,465.93	15	144.9	294
2,860.61	197,980	68	243	3.51	1.4	1,842.88	10	104.0	290
11,351.48	572,956	96	497	9.85	2.0	11,175.64	20	374.8	506
581.34	20,915	9	194	5.38	2.8	5,929.61	3	187.7	120
1,328.17	39,710	17	195	6.51	3.3	787.26	2	23.6	77
2,704.09	146,126	28	435	7.77	1.8	2,609.25	5	95.0	286
2,219.71	108,510	47	192	3.94	2.1	3,448.98	6	105.9	192
6,991.46	430,898	125	287	4.66	1.6	6,261.61	10	274.2	697
4,104.50	222,540	70	265	4.89	1.9	3,934.34	9	120.2	362
3,267.51	228,362	51	373	5.34	1.4	2,557.11	5	113.8	325
924.54	40,977	19	180	4.06	2.3	1,498.71	3	56.4	89
7,537.95	498,432	115	361	5.46	1.5	3,511.11	11	126.4	629
545.34	29,877	11	226	4.13	1.8	391.70	1	6.8	76
3,710.20	155,177	74	175	4.18	2.4	3,530.62	11	144.1	387
5,792.07	285,310	69	344	6.99	2.0	9,049.71	2	207.9	588
3,816.39	227,670	65	292	4.89	1.7	456.42	3	20.9	508

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Cayuga	S.O.	710	5,742.58	281,542	205	114	2.33	2.0
Chatsworth	S.O.	392	3,668.30	242,050	126	160	2.43	1.5
Chesley	S.O.	1,772	14,977.50	1,357,734	521	217	2.40	1.1
Chesterville	S.O.	1,241	7,777.50	680,195	286	198	2.27	1.1
Chippawa	S.O.	1,504	10,597.97	1,122,440	449	208	1.97	0.9
Clifford	S.O.	436	4,452.98	269,024	147	152	2.52	1.7
Cobden	S.O.	691	5,383.05	388,691	224	145	2.00	1.4
Colborne	S.O.	1,049	11,714.23	805,419	342	196	2.87	1.5
Coldwater	S.O.	645	5,537.45	387,195	176	183	2.62	1.4
Comber	S.O.	P.V.	2,924.91	156,840	151	87	1.61	1.9
Cookstown	S.O.	P.V.	3,864.12	181,840	141	107	2.28	2.1
Cottam	S.O.	P.V.	4,216.39	261,965	162	135	2.25	1.7
Courtright	S.O.	455	2,678.13	126,031	127	83	1.76	2.1
Creemore	S.O.	750	6,296.41	400,683	210	159	2.50	1.6
Dashwood	S.O.	P.V.	4,103.68	268,162	122	183	2.80	1.5
Delaware	S.O.	P.V.	3,476.61	268,849	82	273	3.53	1.3
Deseronto	S.O.	1,473	14,149.37	767,540	443	144	2.66	1.8
Dorchester	S.O.	P.V.	4,693.78	358,237	175	171	2.24	1.3
Drayton	S.O.	575	5,763.32	278,226	186	125	2.58	2.1
Dresden	S.O.	1,935	11,053.53	688,630	578	99	1.59	1.6
Drumbo	S.O.	P.V.	4,091.81	263,688	116	189	2.94	1.6
Dublin	S.O.	P.V.	2,604.50	148,935	69	180	3.15	1.8
Dundalk	S.O.	711	6,047.53	390,705	243	134	2.07	1.5
Dutton	S.O.	818	4,174.86	325,520	253	107	1.38	1.3
Elmvale	S.O.	P.V.	5,903.29	396,994	223	148	2.21	1.5
Elmwood	S.O.	P.V.	1,924.67	87,500	97	75	1.65	2.2
Elora	S.O.	1,357	12,116.84	869,079	402	180	2.51	1.4
Embro	S.O.	485	5,954.54	419,994	147	238	3.38	1.4
Erieau	S.O.	*341	7,223.11	401,628	253	132	2.38	1.8
Erie Beach	S.O.	*50	2,110.57	58,430	108	45	1.63	3.6
Finch	S.O.	390	3,897.88	256,913	134	160	2.42	1.5
Flesherton	S.O.	447	3,431.53	204,940	147	116	1.95	1.7
Fonthill	S.O.	1,182	12,671.59	1,054,188	375	234	2.82	1.2
Forest	S.O.	1,709	19,717.69	1,579,973	575	229	2.86	1.3
Frankford†	S.O.	1,242	3,235.74	156,350	334	156	3.23	2.0
Glencoe	S.O.	918	5,788.31	303,045	280	90	1.72	1.9
Grand Valley	S.O.	649	4,926.21	301,150	213	118	1.93	1.6
Granton	S.O.	P.V.	2,616.51	166,680	90	154	2.42	1.6
Hagersville	S.O.	1,624	9,638.41	657,260	468	117	1.72	1.5
Harriston	S.O.	1,449	12,811.62	977,560	423	193	2.52	1.3

*Does not include summer population.
†3 months operation.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
5,367.05	225,607	76	247	5.88	2.4	6,459.37	12	220.5	293
2,963.15	170,275	40	355	6.17	1.7	844.38	1	27.6	167
6,108.38	400,410	96	348	5.30	1.5	8,561.35	27	413.9	644
6,147.45	358,115	71	420	7.22	1.7	11,709.65	6	390.4	363
2,986.42	231,380	48	402	5.18	1.3	1,068.90	3	42.2	500
3,691.16	191,212	39	408	7.89	1.9	1,019.06	2	23.3	188
4,322.59	186,899	68	229	5.30	2.3	4,781.52	6	135.2	298
6,248.04	299,484	86	290	6.05	2.1	1,455.20	6	57.7	434
3,366.96	178,577	53	280	5.29	1.9	3,944.94	4	109.8	233
3,199.47	148,044	56	220	4.76	2.2	3,833.36	7	119.0	214
2,019.51	53,102	39	113	4.32	3.8	1,394.52	4	51.9	184
2,353.33	124,680	32	325	6.13	1.9	1,049.52	5	42.3	199
1,213.86	63,059	25	210	4.05	1.9	580.32	1	14.9	153
2,767.85	161,588	56	240	4.12	1.7	1,327.44	3	70.2	269
1,919.19	86,130	29	248	5.51	2.2	1,109.20	3	54.5	154
1,797.30	98,665	16	513	9.36	1.8	....	......	....	98
5,930.46	206,410	59	291	8.37	2.9	5,075.15	13	155.4	515
1,445.87	55,003	33	139	3.65	2.6	1,189.68	2	41.7	210
3,438.26	119,065	54	184	5.31	2.9	2,148.90	7	77.2	247
10,484.55	636,574	147	361	5.94	1.7	14,905.08	19	588.7	744
2,695.37	103,917	37	234	6.07	2.6	823.33	2	31.1	155
1,908.14	85,014	34	208	4.68	2.3	1,922.37	2	62.5	105
4,911.13	207,745	79	219	5.18	2.4	3,698.99	8	196.8	330
3,034.68	211,746	66	267	3.83	1.4	4,226.08	10	158.4	329
3,803.68	242,814	63	321	5.03	1.6	3,945.13	9	168.3	295
1,444.55	54,415	22	206	5.47	2.7	3,064.80	3	79.6	122
5,668.50	299,601	72	347	6.56	1.9	8,259.77	8	311.0	482
2,147.20	92,061	36	213	4.97	2.3	2,876.29	4	69.1	187
2,803.09	142,031	27	438	8.65	2.0	5,793.32	4	117.2	284
340.17	10,628	5	177	5.67	3.2	....	......	....	113
3,040.63	152,932	37	344	6.85	2.0	2,060.41	4	47.2	175
2,512.28	107,317	52	172	4.03	2.3	1,332.01	2	45.2	201
3,224.61	182,966	43	355	6.25	1.8	1,512.86	6	56.0	424
10,767.59	538,683	136	330	6.60	2.0	6,776.24	21	251.5	732
1,708.62	65,875	76	288	7.49	2.6	355.08	7	63.7	417
8,643.35	407,617	90	377	8.00	2.1	4,129.66	12	157.3	382
3,271.74	138,090	60	192	4.54	2.4	3,595.61	11	142.9	284
1,350.03	62,059	30	172	3.75	2.2	205.97	1	7.5	121
8,448.47	530,248	143	309	4.92	1.6	25,508.35	21	1,174.3	632
8,188.99	391,834	115	284	5.93	2.1	12,926.69	16	414.8	554

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Harrow	S.O.	1,343	19,441.32	1,555,587	424	306	3.82	1.3
Hastings	S.O.	803	7,533.12	384,594	308	104	2.04	1.9
Havelock	S.O.	1,166	7,384.21	435,937	322	113	1.91	1.7
Hensall	S.O.	677	7,326.06	498,320	231	180	2.64	1.5
Highgate	S.O.	340	2,350.36	114,920	114	84	1.72	2.1
Holstein	S.O.	P.V.	1,551.92	89,280	70	106	1.85	1.7
Iroquois	S.O.	1,029	10,769.70	839,227	341	205	2.63	1.3
Jarvis	S.O.	588	3,619.63	202,240	166	102	1.82	1.8
Kemptville	S.O.	1,465	13,668.43	984,865	454	181	2.51	1.4
Kirkfield	S.O.	P.V.	1,238.84	44,290	46	80	2.24	2.8
Lakefield	S.O.	1,667	13,486.58	1,018,957	462	184	2.43	1.3
Lambeth	S.O.	P.V.	5,763.19	512,042	188	227	2.55	1.1
Lanark	S.O.	731	5,562.96	266,850	224	99	2.07	2.1
Lancaster	S.O.	550	2,794.90	157,080	135	97	1.73	1.8
Larder Lake Township‡	N.O.P.	V.A.	13,920.55	543,178	441	137	3.51	2.6
La Salle	S.O.	1,526	19,227.85	1,230,736	413	248	3.88	1.6
Lucan	S.O.	850	9,238.45	823,804	238	238	3.23	1.1
Lucknow	S.O.	963	8,234.81	601,701	360	139	1.91	1.4
Lynden	S.O.	P.V.	4,216.27	334,155	121	230	2.90	1.3
Madoc	S.O.	1,169	9,491.86	642,021	367	146	2.15	1.5
Markdale	S.O.	839	5,780.37	485,003	250	162	1.93	1.2
Markham	S.O.	1,389	14,457.20	984,103	425	193	2.83	1.5
Marmora	S.O.	1,005	7,222.00	352,110	295	99	2.04	2.0
Martintown	S.O.	P.V.	1,693.55	106,070	69	128	2.05	1.6
Maxville	S.O.	812	5,141.50	304,088	206	123	2.08	1.7
McGarry‡	N.O.P.	I.D.	13,174.26	657,356	296	247	4.94	2.0
Merlin	S.O.	P.V.	2,964.46	172,075	149	96	1.66	1.7
Mildmay	S.O.	804	6,460.64	485,650	226	179	2.38	1.3
Millbrook	S.O.	771	7,852.74	406,270	223	152	2.93	1.9
Milverton	S.O.	1,060	8,673.51	676,573	302	187	2.39	1.3
Mitchell	S.O.	1,799	21,454.16	1,795,253	598	250	2.99	1.2
Moorefield	S.O.	P.V.	2,033.02	111,540	80	116	2.12	1.8
Morrisburg	S.O.	1,825	15,739.76	1,101,517	508	181	2.58	1.4
Mount Brydges	S.O.	P.V.	4,105.78	310,333	206	126	1.66	1.3
Mount Forest	S.O.	1,928	16,235.83	1,085,110	584	155	2.32	1.5
Neustadt	S.O.	444	3,132.34	157,451	142	92	1.84	2.0
Newboro	S.O.	332	2,795.66	71,452	76	78	3.07	3.9
Newburgh†	S.O.	500	1,682.51	83,953	117	143	2.88	2.0
Newbury	S.O.	292	2,321.75	113,874	89	107	2.17	2.0
Newcastle	S.O.	*782	8,122.25	601,425	269	186	2.52	1.3

*Does not include summer population.
†5 months operation.
‡9 months operation.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
9,397.87	510,097	101	421	7.75	1.8	4,383.09	8	151.4	533
5,208.45	168,973	59	239	7.36	3.1	233.07	3	13.1	370
3,698.46	160,376	68	196	4.53	2.3	1,862.73	2	51.3	392
3,678.77	152,220	62	205	4.94	2.4	5,859.62	18	243.2	311
1,108.87	53,270	32	139	2.89	2.1	2,186.66	7	78.1	153
495.89	22,266	16	116	2.58	2.2	615.85	2	19.0	88
4,081.73	257,752	61	352	5.58	1.6	2,082.45	6	65.1	408
3,105.95	187,860	47	333	5.50	1.7	4,153.83	4	113.6	217
7,845.99	384,275	90	356	7.26	2.0	5,317.11	7	164.7	551
1,559.70	55,630	24	193	5.42	2.8	....	......	....	70
9,356.59	559,330	92	507	8.47	1.7	7,998.22	12	297.3	566
1,506.88	98,975	28	295	4.48	1.5	1,175.97	7	38.7	223
4,086.18	162,091	52	260	6.55	2.5	1,729.55	3	56.6	279
1,941.62	92,706	34	227	4.76	2.1	....	......	....	169
5,832.39	387,429	89	484	7.28	1.5	1,254.45	4	34.3	534
5,684.55	242,809	28	723	16.92	2.3	780.79	3	17.6	444
3,402.68	181,153	51	296	5.56	1.9	1,078.63	4	45.2	293
4,883.91	297,234	109	227	3.73	1.6	11,330.77	12	285.1	481
859.60	36,390	15	202	4.76	2.4	1,380.35	3	79.4	139
6,913.24	393,250	100	327	5.76	1.7	3,946.39	6	119.8	473
4,485.96	292,637	79	309	4.73	1.5	3,166.23	10	158.9	339
5,702.76	378,119	83	380	5.73	1.5	3,800.24	11	144.1	519
3,769.31	183,460	50	306	6.28	2.0	604.28	1	30.8	346
1,516.76	45,811	27	141	4.68	3.3	108.73	1	3.3	97
3,328.40	131,740	51	215	5.44	2.5	....	......	....	257
5,887.66	465,487	60	862	10.90	1.3	....	......	....	162
2,776.38	118,964	63	157	3.67	2.3	1,825.47	4	62.9	216
4,047.60	168,774	66	213	5.11	2.4	1,886.06	7	45.0	299
3,583.78	92,035	63	122	4.74	3.9	1,157.53	5	25.7	291
5,807.96	294,758	82	300	5.90	2.0	5,769.78	14	279.8	398
9,976.65	600,556	144	348	5.77	1.6	12,558.75	28	511.6	770
1,688.42	75,732	28	225	5.03	2.2	1,500.37	1	38.3	109
11,667.42	605,982	143	353	6.80	1.9	8,410.57	27	250.1	678
1,303.37	64,325	48	112	2.26	2.0	1,137.77	6	50.9	260
11,862.22	636,164	157	338	6.30	1.9	9,582.48	18	382.9	759
1,645.65	71,214	30	198	4.57	2.3	663.00	3	26.6	175
1,828.89	31,558	19	138	8.02	5.7	....	......	....	95
603.81	25,124	24	209	5.03	2.4	300.82	3	20.3	144
1,508.96	70,062	23	254	5.47	2.2	196.67	1	11.2	113
3,801.00	244,330	44	463	7.20	1.5	5,371.39	9	158.1	322

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
New Hamburg	S.O.	1,602	15,377.05	1,403,084	440	266	2.91	1.1
Niagara	S.O.	1,727	28,605.80	3,049,263	783	325	3.04	0.9
Nipigon Township	T.B.	V.A.	12,817.66	995,765	374	222	2.85	1.3
Norwich	S.O.	1,369	13,758.12	1,299,229	462	234	2.48	1.1
Norwood	S.O.	873	8,235.25	498,430	270	154	2.54	1.7
Oil Springs	S.O.	426	2,752.35	173,649	125	116	1.83	1.6
Omemee	S.O.	611	5,179.21	293,959	205	119	2.10	1.8
Orono	S.O.	P.V.	7,361.27	369,530	219	140	2.80	2.0
Otterville	S.O.	P.V.	4,894.36	416,619	186	187	2.19	1.2
Paisley	S.O.	725	7,067.68	390,380	245	133	2.40	1.8
Palmerston	S.O.	1,499	16,730.75	1,439,941	457	263	3.05	1.2
Parkhill	S.O.	1,003	10,879.95	799,510	343	194	2.64	1.4
Plattsville	S.O.	P.V.	4,417.63	322,572	129	208	2.85	1.4
Point Edward	S.O.	1,670	11,826.53	711,780	431	138	2.29	1.7
Port McNicoll	S.O.	*890	5,882.41	293,316	308	79	1.59	2.0
Port Perry	S.O.	1,435	16,290.60	908,903	460	165	2.95	1.8
Port Rowan	S.O.	718	4,336.87	204,950	222	77	1.63	2.1
Port Stanley	S.O.	*996	23,649.04	2,249,505	1,006	186	1.96	1.1
Priceville	S.O.	P.V.	1,015.59	42,448	52	68	1.63	2.4
Princeton	S.O.	P.V.	3,809.50	246,843	101	204	3.14	1.5
Queenston	S.O.	P.V.	4,021.62	450,204	96	391	3.49	0.9
Red Rock	T.B.	I.D.	9,870.07	745,258	190	327	4.33	1.3
Richmond	S.O.	523	4,489.00	425,210	127	279	2.95	1.1
Richmond Hill	S.O.	1,751	20,355.54	2,217,322	578	320	2.93	0.9
Ripley	S.O.	437	4,860.03	215,804	144	125	2.81	2.3
Rockwood	S.O.	P.V.	6,307.53	474,491	199	198	2.64	1.3
Rodney	S.O.	859	4,893.52	311,645	295	88	1.38	1.6
Rosseau	S.O.	240	2,457.89	65,325	81	67	2.53	3.8
Russell	S.O.	P.V.	4,853.09	220,088	136	135	2.97	2.2
St. Clair Beach	S.O.	*322	4,853.45	317,306	143	185	2.83	1.5
St. George	S.O.	P.V.	4,688.40	351,235	191	153	2.05	1.3
St. Jacobs	S.O.	P.V.	6,001.80	563,780	166	283	3.01	1.1
Schreiber Township	T.B.	V.A.	17,810.41	423,445	395	89	3.76	4.2
Seaforth	S.O.	1,971	19,323.55	1,592,390	590	225	2.73	1.2
Shelburne	S.O.	1,209	9,591.67	648,820	362	149	2.21	1.4
Smithville	S.O.	P.V.	4,842.13	310,110	209	124	1.93	1.6
Southampton	S.O.	*1,792	17,145.92	1,254,159	705	148	2.03	1.4
Springfield	S.O.	455	3,505.28	182,660	133	114	2.20	1.9
Stayner	S.O.	1,120	10,227.86	673,325	353	159	2.41	1.5
Stirling	S.O.	1,115	11,069.80	1,084,631	343	263	2.69	1.0

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*Does not include summer population.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
7,811.92	430,284	114	315	5.71	1.8	10,431.91	15	405.7	569
8,903.44	642,050	110	486	6.75	1.4	2,715.30	14	125.0	907
13,987.19	998,660	99	841	11.77	1.4	1,732.59	5	60.7	478
7,157.58	353,656	102	289	5.85	2.0	2,330.93	9	152.7	573
4,981.34	198,710	78	212	5.32	2.5	3,251.78	4	107.7	352
1,602.83	71,368	39	152	3.42	2.3	5,649.68	33	127.7	197
2,354.85	89,640	37	201	5.30	2.6	4,960.89	9	166.0	251
2,764.27	100,272	53	157	4.34	2.8	146.96	3	5.0	275
2,946.87	143,049	62	192	3.96	2.1	641.97	8	33.3	256
4,294.01	183,800	62	247	5.77	2.3	2,248.28	6	69.1	313
8,260.32	424,617	110	322	6.26	1.9	10,153.41	20	498.1	587
6,390.81	317,520	94	281	5.67	2.0	4,866.24	12	144.7	449
2,563.24	99,512	30	276	7.12	2.6	3,880.52	2	121.0	161
4,271.90	171,780	57	251	6.25	2.5	69,186.72	15	1,970.8	503
1,705.15	58,049	24	203	5.92	2.9	666.22	1	12.8	333
7,942.95	314,566	91	288	7.27	2.5	3,928.53	12	136.4	563
4,419.55	252,757	73	289	5.05	1.7	115.82	2	7.5	297
8,874.83	534,096	126	353	5.87	1.7	15,495.36	13	627.5	1,145
362.33	13,638	15	76	2.01	2.7	261.36	2	7.3	69
1,175.89	50,437	22	191	4.45	2.3	2,721.65	4	78.6	127
2,450.03	174,140	19	764	10.75	1.4	....	......	....	115
6,400.16	338,625	20	1,410	26.66	1.9	673.10	3	18.7	213
1,875.08	71,333	25	238	6.25	2.6	....	......	....	152
6,596.94	417,041	101	344	5.44	1.6	2,957.28	19	166.0	698
2,643.84	74,834	55	113	4.01	3.5	1,572.68	1	39.9	201
2,203.74	109,035	38	239	4.83	2.0	67.29	2	3.0	239
3,705.35	186,945	76	205	4.06	2.0	3,259.81	8	124.5	379
1,274.62	42,399	16	221	6.64	3.0	701.88	1	14.5	98
3,176.09	104,619	38	229	6.97	3.0	222.00	1	5.2	175
2,208.75	113,585	13	728	14.16	2.0	215.25	1	7.5	157
2,907.74	162,014	39	346	6.21	1.8	3,852.98	4	123.4	234
2,694.08	144,638	38	317	5.90	1.9	4,441.35	9	194.9	213
9,450.11	268,890	53	423	14.85	3.5	265.28	4	11.3	452
12,688.90	701,956	125	468	8.46	1.8	17,329.28	19	752.7	734
5,879.73	340,380	97	292	5.05	1.7	4,140.60	13	179.7	472
4,490.19	224,978	63	298	5.94	2.0	13,561.16	10	488.5	282
7,997.44	330,234	111	248	6.00	2.4	11,339.95	14	340.8	830
1,223.33	45,450	33	115	3.09	2.7	1,656.29	4	56.0	170
6,112.52	353,820	106	278	4.81	1.7	4,134.59	20	192.0	479
4,873.69	265,039	86	257	4.72	1.8	2,660.11	15	138.1	444

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population)

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Stoney Creek	S.O.	1,395	19,349.68	1,389,700	475	244	3.39	1.4
Stouffville	S.O.	1,438	13,134.14	1,263,731	491	214	2.23	1.1
Streetsville	S.O.	870	10,982.87	907,369	260	291	3.49	1.2
Sunderland	S.O.	P.V.	5,135.27	300,533	175	143	2.45	1.7
Sutton	S.O.	*1,114	13,240.77	866,440	531	136	2.08	1.5
Tara	S.O.	491	4,146.89	273,560	178	128	1.94	1.5
Tavistock	S.O.	1,079	11,907.50	1,144,590	330	289	3.01	1.0
Teeswater	S.O.	849	6,657.69	423,437	254	139	2.18	1.6
Terrace Bay	T.B.	I.D.	19,226.90	1,741,530	227	639	7.05	1.1
Thamesford	S.O.	P.V.	6,411.90	577,865	172	280	3.11	1.1
Thamesville	S.O.	857	5,061.15	361,586	287	105	1.47	1.4
Thedford	S.O.	579	5,143.13	280,130	196	119	2.19	1.8
Thornbury	S.O.	943	8,546.03	480,555	315	127	2.26	1.8
Thorndale	S.O.	P.V.	3,147.64	190,250	85	187	3.09	1.7
Thornton	S.O.	P.V.	1,868.24	73,630	72	85	2.16	2.5
Tottenham	S.O.	551	5,651.54	339,206	186	152	2.53	1.7
Trafalgar Township	S.O.	V.A.	41,531.32	2,608,940	843	258	4.11	1.6
Tweed	S.O.	1,700	12,362.30	699,223	389	150	2.65	1.8
Uxbridge	S.O.	1,630	17,297.40	1,178,690	518	190	2.78	1.5
Victoria Harbour	S.O.	*933	5,479.34	283,700	327	72	1.40	1.9
Wardsville	S.O.	315	3,017.17	155,040	87	149	2.89	1.9
Warkworth	S.O.	P.V.	4,045.67	207,820	162	107	2.08	1.9
Waterdown	S.O.	1,070	10,869.30	1,098,130	341	268	2.66	1.0
Waterford	S.O.	1,546	11,116.00	915,749	510	150	1.82	1.2
Watford	S.O.	1,079	12,212.59	894,590	343	217	2.97	1.4
Waubaushene	S.O.	P.V.	5,764.35	323,190	283	95	1.70	1.8
Wellesley	S.O.	P.V.	4,242.78	284,320	160	148	2.21	1.5
Wellington	S.O.	*1,036	9,306.33	678,743	388	146	2.00	1.4
West Lorne	S.O.	927	6,160.79	464,584	279	139	1.84	1.3
Westport	S.O.	687	5,712.43	311,890	177	147	2.69	1.8
Wheatley	S.O.	969	6,279.52	485,070	283	143	1.85	1.3
Wiarton	S.O.	1,837	13,079.69	931,410	513	151	2.12	1.4
Williamsburg	S.O.	P.V.	2,318.56	233,260	97	200	1.99	1.0
Winchester	S.O.	1,094	10,376.40	874,237	348	209	2.48	1.2
Windermere	S.O.	*118	2,921.54	88,455	81	91	3.01	3.3
Woodbridge	S.O.	1,250	12,487.13	1,230,831	367	279	2.84	1.0
Woodville	S.O.	408	3,543.58	195,783	133	123	2.22	1.8
Wyoming	S.O.	644	3,938.33	236,370	196	101	1.67	1.7
Zurich	S.O.	P.V.	5,716.33	321,542	185	145	2.57	1.8

*Does not include summer population.

"D"—Concluded

in Ontario Urban Municipalities Served by the Commission and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
7,913.33	334,161	79	352	8.35	2.4	3,481.20	10	120.3	564
7,011.47	456,068	99	384	5.90	1.5	5,029.32	10	209.0	600
4,909.86	204,564	58	293	7.03	2.4	15,453.29	12	508.0	330
2,508.75	107,510	39	230	5.36	2.3	2,878.43	2	76.3	216
11,013.08	479,810	114	351	8.05	2.3	2,821.20	10	89.2	655
2,034.58	115,911	44	220	3.85	1.8	1,902.30	8	61.0	230
5,810.18	295,336	101	244	4.79	2.0	9,507.38	9	337.2	440
4,004.38	162,781	65	209	5.13	2.5	3,344.45	8	121.0	327
7,974.67	449,717	14	268	4.75	1.8	8,503.94	1	232.3	242
2,471.35	133,849	45	248	4.58	1.9	2,621.53	5	97.5	222
4,191.02	269,754	92	244	3.80	1.6	4,181.31	11	164.1	390
3,677.64	171,200	63	226	4.86	2.2	2,463.27	3	64.7	262
4,216.76	172,834	70	206	5.09	2.4	3,945.24	14	196.6	399
1,116.21	43,888	21	174	4.43	2.6	2,375.19	3	68.2	109
617.96	26,260	14	156	3.68	2.4	426.81	2	20.1	88
2,530.32	96,513	50	161	4.22	2.6	2,090.40	9	57.6	245
6,203.42	271,010	74	305	6.99	2.3	5,780.64	17	186.7	934
7,578.34	274,576	86	266	7.34	2.8	10,058.70	19	282.3	494
7,309.74	282,500	109	216	5.59	2.6	5,356.62	17	262.8	644
1,261.95	71,310	35	170	3.00	1.8	418.99	1	10.3	363
2,299.89	116,370	23	422	8.33	2.0	42.42	1	2.2	111
2,267.26	102,138	40	213	4.72	2.2	206.98	1	4.2	203
3,457.40	209,167	48	363	6.00	1.7	1,928.99	10	100.7	399
4,674.97	323,880	81	333	4.81	1.4	5,932.32	15	284.4	606
6,580.34	332,883	84	330	6.53	2.0	6,290.76	9	202.1	436
1,556.69	77,060	30	214	4.32	2.0	1,030.78	3	19.0	316
2,923.83	147,140	52	236	4.69	2.0	1,414.61	8	56.9	220
3,888.82	177,699	80	185	4.05	2.2	5,311.47	12	217.5	480
4,897.33	305,763	74	344	5.52	1.6	14,614.77	13	456.3	366
4,996.93	187,970	61	257	6.83	2.7	....	......	....	238
7,051.80	409,230	88	388	6.68	1.7	6,618.96	15	236.9	386
11,264.38	631,194	110	478	8.53	1.8	12,737.15	25	310.2	648
2,344.11	150,530	37	339	5.28	1.6	....	......	....	124
7,400.54	480,155	95	421	6.49	1.5	6,232.83	4	208.4	447
1,380.45	55,490	12	385	9.59	2.4	1,077.59	2	32.4	95
4,428.18	269,729	70	321	5.27	1.6	20,171.56	10	846.9	447
1,328.72	47,639	30	132	3.69	2.8	619.12	2	29.3	165
2,208.02	124,700	48	217	3.83	1.8	3,162.91	4	90.8	248
4,381.05	188,696	51	308	7.16	2.3	....	......	....	236

APPENDIX I

ACTS AND ORDERS-IN-COUNCIL

AT THE 1949 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. The said Act is reproduced here in full. The short title of the Act is as follows:

The Power Commission Amendment Act, 1949, Chapter 73.

ACTS

CHAPTER 73

An Act to amend The Power Commission Act.

Assented to April 1st, 1949.

Session Prorogued April 8th, 1949.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Rev. Stat., c. 62, s. 6, subs. 1, re-enacted.

1. Subsection 1 of section 6 of *The Power Commission Act* is repealed and the following substituted therefor:

Officers and employees.

(1) The Commission may appoint and employ upon such terms of employment as it deems desirable a general manager, chief engineer, secretary and such other officers and employees as it may deem requisite.

Rev. Stat., c. 62, s. 7, subs. 1, amended.

2.—(1) Subsection 1 of section 7 of *The Power Commission Act*, as amended by section 3 of *The Power Commission Amendment Act, 1946*, is further amended by striking out the words "make to the Lieutenant-Governor in Council, for the information of the Assembly" in the second and third lines and inserting in lieu thereof the words "file with the Provincial Secretary", so that the subsection, exclusive of the clauses, shall read as follows:

Annual report.

(1) The Commission shall, before the 1st day of March in each year, file with the Provincial Secretary an annual report, which shall contain, among other things, clear and comprehensive statements disclosing and exhibiting,—

Rev. Stat., c. 62, s. 7, subs. 2, re-enacted.

(2) Subsection 2 of the said section 7 is repealed and the following substituted therefor:

Signing of report.

(2) The annual report shall be signed by the chairman or vice-chairman of the Commission.

Tabling of report.

(3) The Provincial Secretary shall submit the report to the Lieutenant-Governor in Council and shall then lay the report before the Assembly, if it is in session, or if not, at the next ensuing session.

Rev. Stat., c. 62, s. 11*a*, subs. 2 (1948, c. 69, s. 3), amended.

3. Subsection 2 of section 11*a* of *The Power Commission Act*, as enacted by section 3 of *The Power Commission Amendment Act, 1948*, is amended by inserting after the figures and letter "21*b*" in the fifth line the word, figures and letters "21*c* or 21*d*", so that the subsection shall read as follows:

Use of moneys.

(2) Any or all of the amounts at the credit of the frequency standardization reserve account may be used in the discretion of the Commission for meeting any expenditure or costs made or incurred under section 21*b*, 21*c* or 21*d*, except expenditure or costs made or incurred in respect to works held by it under section 71.

Rev. Stat., c. 62, s. 17, re-enacted.

4.—(1) Section 17 of *The Power Commission Act* is repealed and the following substituted therefor:

Pension and Insurance Fund.

17.—(1) There shall be a fund known as The Pension and Insurance Fund of The Hydro-Electric Power Commission of Ontario, in this section referred to as the "fund", for the payment of benefits by way of pensions or superannuation allowances to, or allowances upon the death or disability of, such employees of the Commission as the Commission may determine in accordance with this section and any regulations made hereunder, and for the purposes of this section "employee" includes any person in the employ of the Commission on or after the 1st day of November, 1947.

Superseding former pension fund and retirement fund.

(2) The fund shall supersede,—

(*a*) the pension fund established by the Commission with the approval of the Lieutenant-Governor in Council on the 29th day of October, 1923, and administered under regulations and amendments thereof approved by the Lieutenant-Governor in Council on the 29th day of October, 1923, the 26th day of March, 1926, the 25th day of June, 1926, the 15th day of December, 1938, the 28th day of December, 1939, and the 16th day of June, 1944; and

(*b*) the retirement fund established by the Commission with the approval of the Lieutenant-Governor in Council on the 24th day of November, 1942.

Transfer of funds.

(3) The moneys, securities and other assets in or credited to the pension and retirement funds mentioned in subsection 2 shall be transferred to the fund and it

shall consist of the said moneys, securities and other assets and such amounts as may be contributed thereto by the Commission and its employees.

Payment of prior pensions.

(4) The regulations referred to in clause *a* of subsection 2 shall continue to apply to all pensions granted before the 1st day of November, 1947, from the pension fund mentioned therein, but all such pensions and death benefits in respect thereof shall be paid by the Commission out of the fund.

Contributions of employees.

(5) The contributions of the employees towards the cost of the benefits mentioned in subsection 1 shall be as prescribed by the regulations made under this section and be paid into the fund in accordance therewith.

Contributions of Commission.

(6) The Commission shall contribute towards the cost of the benefits mentioned in subsection 1 the amount of the difference between the amount of the contributions of the employees and the amount of the cost of the benefits as determined by actuarial valuations.

Insurance. Rev. Stat., c. 256.

(7) The Commission may enter into agreement with one or more insurers licensed under *The Insurance Act*, for,—

(*a*) providing insurance by way of death or disability benefits for such employees of the Commission as the Commission may determine in accordance with this section and any regulations made hereunder; and

(*b*) payment by the Commission of the cost of the benefits mentioned in clause *a*,

and the cost referred to in clause *b* shall be charged by the Commission against the fund.

Commission's Contributions confirmed.

(8) The contribution by the Commission towards the cost of pensions and life insurance provided by any contract heretofore entered into by or on behalf of an employee of the Commission with an insurer licensed under *The Insurance Act* is hereby authorized and declared to be legal and valid as of the date of making any such contribution.

Regulations.

(9) Subject to the approval of the Lieutenant-Governor in Council, the Commission may make regulations,—

(*a*) establishing The Pension and Insurance Plan of The Hydro-Electric Power Commission of Ontario, herein called the "plan";

(*b*) prescribing the class or classes of employees who are eligible to be members of the plan, the time at which membership shall commence, and the period of time thereafter within which an employee may elect not to be a member of the plan;

(*c*) providing for the payment out of the fund of the contributions made by any employee to the fund or to either of the superseded funds referred to in subsection 2 where such employee elects not to be a member of the plan;

(*d*) prescribing the period of employment with the Commission alone, or with a previous employer and the Commission, that shall constitute service for the purpose of determining pension benefits;

(*e*) prescribing the persons who may receive benefits under the plan;

(*f*) prescribing the contributions to the fund by employees and the rate or rates at which interest shall be calculated when payments are made out of the fund of any such contributions and of any contributions to either of the superseded funds referred to in subsection 2;

(*g*) prescribing the amount for which any employee or pensioner shall be insured from time to time;

(*h*) prescribing the payments to be made from the fund, or by an insurer, upon,

  (i) termination of employment,
  (ii) retirement from employment on pension,
  (iii) disability, or
  (iv) death,

and the terms and conditions upon which, and the person or persons to whom, the same shall be made;

(*i*) providing for payment out of the fund of the cost of any benefits provided under any agreement referred to in subsection 7 or 8;

(*j*) prescribing the intervals of time within which an actuarial valuation of the fund shall be made; and

(*k*) respecting any other matter necessary or advisable to carry out effectively the intent and purpose of this section.

Employees of Sandwich, Windsor and Amherstburg Railway.

(10) The Commission may extend the provisions of this section to the employees of the Sandwich, Windsor and Amherstburg Railway, herein referred to as the "railway", to whom the provisions pertaining to the pension fund referred to in clause *a* of subsection 2 applied on the 1st day of November, 1947, whereupon the said employees of the railway shall be deemed to be members of the plan, but it shall not do so unless the railway, its successors and assigns, for itself and its said employees, undertakes to pay and pays to the Commission the full actuarial cost of such benefits for the said employees of the railway.

When former regulations applicable.

(11) Until such time as the railway makes payment of the cost as provided by subsection 10, the regulations respecting the pension fund referred to in clause *a* of subsection 2 shall continue in effect with respect to the said employees of the railway provided that the

contributions specified in those regulations do not cease to be paid to the Commission for any cause other than death or retirement on pension.

Cost to Commission chargeable to administration.

(12) The fund shall be maintained and administered by the Commission and the cost to the Commission of maintaining and administering it shall be deemed to be part of the cost of the administration of the Commission and shall be chargeable accordingly.

Freedom from attachment.

(13) The interest of any person in the fund or in any benefit payable therefrom shall not be subject to garnishment, attachment or seizure or any legal process and shall not be assignable.

Effective date.

(2) This section, together with the regulations first made under section 17 as re-enacted by subsection 1, shall be deemed to have come into force on the 1st day of November, 1948, but any employee who contributed to any former plan and who, while in the employ of the Commission, retired or died during the year immediately preceding the 1st day of November, 1948, shall, or his beneficiary or personal representative shall, as the case may be, be entitled to benefit under the new plan in the same manner and to the same extent as if the effective date of the new plan had been the date of retirement or death, whichever first occurred, of any such employee.

Rev. Stat., c. 62, s. 21, subs. 2, cls. *c*, *d*, re-enacted.

5. Clauses *c* and *d* of subsection 2 of section 21 of *The Power Commission Act* are repealed and the following substituted therefor:

To acquire and construct works for production and use of electricity.

(*c*) generate and produce electrical, pneumatic, hydraulic, mechanical or other power or energy at places in Ontario by the use of water, coal, steam or oil, or by any other means, and transform, transmit, make available for use, distribute, deliver, sell, supply and generally use for the purposes of the Commission the electrical, pneumatic, hydraulic, mechanical or other power or energy and connect the works constructed or installed for these purposes with any other power works and with any system;

To acquire and use real and personal property for the generation and use of electrical power.

(*cc*) for the purposes of clause *c* acquire by purchase, lease or otherwise, hold, improve and use real and personal property, acquire by purchase or otherwise water, coal, steam, oil and other supplies, and construct, maintain and operate works, including without limiting the generality of the foregoing, development works, generating plants, transformer stations, transmission lines, switching and regulating works, distribution lines, access and other roads, and all other equipment, plant and works and things required for or incidental to any of such purposes;

Works on provincial boundaries.

(*d*) acquire by purchase, lease or otherwise, lands, works, waters, water privileges and water powers upon or adjacent to the boundary line between Ontario and any other province and situate in Ontario, or in such other province, or partly in one and partly in the other of them, and erect, construct, maintain and operate upon any lands so acquired, works for the generation, transformation and transmission of electrical, pneumatic, hydraulic, mechanical or other power or energy, and enter into agreements with the Crown in right of such other province or with any commission appointed by the Lieutenant-Governor in Council of such other province or otherwise lawfully appointed or any other person interested in or affected by such works as to the terms and conditions upon which such works shall be constructed and operated and any rights so acquired be exercised.

Rev. Stat., c. 62, s. 21*b*, cls. *b*, *d*, *e* (1948, c. 69, s. 3), re-enacted.

6.—(1) Clauses *b*, *d* and *e* of section 21*b* of *The Power Commission Act*, as enacted by section 3 of *The Power Commission Amendment Act, 1948*, are repealed and the following substituted therefor:

(*b*) for the purposes of standardizing and making uniform the periodicity in alternations of current at which electrical power or energy generated or procured by it is utilized and with the consent of the owner, alter, reconstruct, rebuild, re-assemble, construct, extend, replace or do whatever else may be necessary in respect of the electrical equipment, apparatus, appliances, devices and works of any person by which such electrical power is taken and used, except meters of any municipal corporation or commission or the electrical equipment, apparatus, appliances, devices or works of any municipal corporation or commission used for distribution stations or distribution or street lighting systems;

. . . .

(*d*) bear the expense of anything done pursuant to clause *b* to the electrical equipment, apparatus, appliances, devices or works of commercial lighting consumers, or domestic or rural consumers other than rural power consumers;

(*e*) charge to and collect from the owners of electrical equipment, apparatus, appliances, devices or works other than the electrical equipment, apparatus, appliances, devices or works mentioned in clause *d* the expense of anything done thereto pursuant to clause *b* to the extent approved by the Lieutenant-Governor in Council and bear the balance of such expense.

Order in Council of Nov. 4th, 1948, to remain in force.

(2) Notwithstanding subsection 1, the Order in Council made the 4th day of November, 1948, pursuant to sections 21*a* and 21*b*, shall remain in force until revoked by the Lieutenant-Governor in Council.

Rev. Stat., c. 62, amended.

7. *The Power Commission Act* is amended by adding thereto the following sections:

21*c*. The Commission may do whatever will in its opinion effect a reduction in the cost of anything done or to be done under clause *a* or *b* of section 21*b*. Reduction of cost of frequency change-over.

21*d*. Where the owner of any electrical equipment, apparatus, appliances, devices or works by which is utilized electrical power or energy generated or procured by the Commission changes them with the approval of the Commission in order to take the electrical power or energy at a changed periodicity in alternations in current, the Commission may bear the expense of the change to the same extent as if it had effected the change itself under clause *b* of section 21*b*. Change made by owner.

21*e*. Electrical equipment, apparatus, appliances, devices or works, or any part thereof, replaced by the Commission under clause *b* of section 21*b* shall become the property of the Commission. Ownership of replaced equipment.

21*f*. Nothing done under section 21*a* shall be deemed a breach of contract by the Commission or entitle any person to rescind any agreement or release any guarantor from the performance of his obligation. Conversion not a breach of contract.

21*g*.—(1) No action shall be brought against any person in respect of anything done under or pursuant to or to give effect to section 21*a*, 21*b* or 21*c* after the expiration of one year commencing on the date when the cause of action arose. Limitation of actions arising from frequency change-over.

(2) No action shall be brought against any person in respect of anything done under or pursuant to or to give effect to section 21*a*, 21*b* or 21*c* unless notice in writing of the claim has been served upon or sent by registered post to such person within ninety days after the cause of action arose. Notice of claim.

(3) No action shall be brought against any person, and no person shall be liable for loss of use of anything, or loss of production of or by anything, or loss of profits by reason of anything done pursuant to, or to give effect to, section 21*a*, 21*b* or 21*c*. No right of action in certain cases.

(4) Subsections 1 and 2 shall not apply to any action between the Commission and any person in respect of or arising from any agreement between the Commission and such person for the doing by such person for the Commission of anything to give effect to section 21*a*, 21*b* or 21*c*. Saving.

8.—(1) Subsection 1 of section 39 of *The Power Commission Act*, as amended by section 4 of *The Power Commission Amendment Act, 1943*, is repealed and the following substituted therefor: Rev. Stat., c. 62, s. 39, subs. 1, re-enacted.

(1) Subject to the approval of the Lieutenant-Governor in Council, the Commission may borrow from time to time such sums of money as the Commission may deem requisite for any of the purposes of the Com- General borrowing powers.

mission and may issue notes, bonds, debentures or other securities and the Commission shall have power and shall be deemed always to have had power to make such securities bear such rate or rates of interest and make such securities payable as to principal and interest at such time or times and in such manner and at such place or places in Canada or elsewhere and in the currency or currencies of such country or countries as the Commission with the approval of the Lieutenant-Governor in Council may determine.

Rev. Stat., c. 62, s. 39, subs. 2, amended.

(2) Subsection 2 of the said section 39 is amended by striking out the word "made" in the second line of clause *b* and inserting in lieu thereof the word "raised", and by adding thereto the following clauses:

(*d*) payment of the whole or any part of any other liability or indebtedness of the Commission;

(*e*) carrying out any of the powers and purposes of the Commission referred to in sections 21, 21*a*, 21*b*, 21*c*, 21*d*, 28 and 71, or in respect of the acquisition or construction of works referred to in section 47, providing in whole or in part for expenditures of the Commission made or to be made in connection therewith, reimbursing the Commission for any such expenditures heretofore or hereafter made, and repaying in whole or in part any temporary borrowings of the Commission for any of such purposes.

Rev. Stat., c. 62, s. 39, amended.

(3) The said section 39 is further amended by adding thereto the following subsections:

Form and execution of securities.

(7) The notes, bonds, debentures and other securities of the Commission shall be in such form or forms and shall be executed in such manner as the Commission may determine.

Reproduction of seal and signatures.

(8) The Commission may provide that the seal of the Commission may be engraved, lithographed, printed or otherwise mechanically reproduced on any security to which it is to be affixed and that any signature upon any such security and upon the coupons, if any, attached thereto may be engraved, lithographed or printed or otherwise mechanically reproduced thereon.

Effect of mechanical reproduction of seal and signatures.

(9) The seal of the Commission when so mechanically reproduced shall have the same force and effect as if manually affixed and such mechanically reproduced signatures shall for all purposes be valid and binding upon the Commission notwithstanding that any person whose signature is so reproduced has ceased to hold office before the date of the security or before the issue thereof.

Rev. Stat., c. 62, s. 42, re-enacted.

9. Section 42 of *The Power Commission Act* is repealed and the following substituted therefor:

Temporary loans.

42.—(1) Subject to the approval of the Lieutenant-Governor in Council, the Commission may from time to time for any of the purposes of the Commission borrow by way of temporary loan from any chartered bank or from any person such sums as the Commission may deem requisite, either by way of bank overdraft or loan or in any other manner whatsoever.

Security for temporary loans.

(2) For the purposes of subsection 1, the Commission may pledge as security, notes, bonds, debentures or other securities of the Commission pending the sale thereof or in lieu of selling the same, or may pledge as security, bonds, debentures or other securities owned by the Commission, or otherwise give such security as the Commission may determine, and any cheques, promissory notes, or other instruments that may be necessary or desirable for the purposes of subsection 1 or this subsection may be executed in such manner as the Commission may determine.

Guarantee by Province.

(3) The Lieutenant-Governor in Council may guarantee the repayment of advances made by banks, or any other indebtedness incurred by the Commission.

Rev. Stat., c. 62, s. 47, amended.

10. Section 47 of *The Power Commission Act*, as amended by section 5 of *The Power Commission Amendment Act, 1943* and section 10 of *The Power Commission Amendment Act, 1946*, is further amended by adding thereto the following subsection:

Transfer o power to systems.

(10) The Commission may divert, transmit or transfer electrical power or energy from any or all of the works mentioned in subsection 1 for use in any system or systems as defined in section 65 crediting to the revenue derived from such works such price for the electrical power or energy as the Commission may determine.

Commencement of Act.

11. This Act shall come into force on the day it receives the Royal Assent.

Short title.

12. This Act may be cited as *The Power Commission Amendment Act, 1949.*

ORDERS-IN-COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities, persons and corporations mentioned in the list hereunder given were approved by Orders-in-Council.

CO-OPERATIVE SYSTEMS

Town	
Oakville	April 6, 1949

Villages	
Barry's Bay	Nov. 9, 1949
Burk's Falls	Oct. 31, 1949
Frankford	Aug. 12, 1949
Killaloe Station	Sept. 29, 1949
Newburgh	June 24, 1949

Townships	
Algona South	Aug. 31, 1949
Bangor, Wicklow & McClure	April 4, 1949
Bexley	Dec. 12, 1949
Brudenell and Lyndock	Oct. 17, 1949
Camden East	Mar. 11, 1949
Carlow	June 8, 1949
Dungannon	April 4, 1949
Dysart, Eyre, Guilford, Harbun, Harcourt, Dudley, Havelock, Bruton and Clyde	Mar. 11, 1949

TOWNSHIPS—Continued

East Oxford	Mar. 4, 1949
Faraday	April 4, 1949
Howard	July 22, 1949
Innisfil	July 22, 1949
Laxton, Digby & Longford	May 18, 1949
Mayo	July 22, 1949
McNab	Aug. 4, 1949
Mulmur	Sept. 29, 1949
Mulmur	Nov. 10, 1949
Nelson	Aug. 31, 1949
North Dumfries	April 4, 1949
North Plantagenet	Sept. 29, 1949
Oneida	June 8, 1949
Osgoode	Sept. 29, 1949
Osprey	Jan. 13, 1950
Radcliffe	June 24, 1949
Raglan	Aug. 2, 1949
Reach	Sept. 29, 1949
Rolph, Wylie, Buchanan & McKay	Oct. 11, 1949
Sandwich East	Dec. 1, 1949
Sebastopol	Sept. 29, 1949
Sherwood, Jones and Burns	May 2, 1949
Turnberry	Jan. 24, 1950

CORPORATIONS

A. V. Roe Canada Limited	Dec. 16, 1949
Building Products Limited	Mar. 4, 1949
Canada Starch Company Limited	May 3, 1949
Canada Starch Company Limited	Jan. 31, 1950
Canadian Admiral Corporation Limited	June 24, 1949
Canadian Industries Limited	Aug. 2, 1949
Great Lakes Paper Company, Limited	April 29, 1949
His Majesty the King, herein represented by the Minister of National Defence for the Dominion of Canada	June 20, 1949
His Majesty the King in right of Canada, herein represented by the Minister of National Defence for the Dominion of Canada	Nov. 8, 1949
Howard Smith Paper Mills, Limited	Mar. 15, 1949
International Nickel Company of Canada Limited	April 25, 1949
Madoc Co-Operative Association	April 6, 1949
Maple Leaf Milling Company, Limited	Mar. 15, 1949
Maple Leaf Milling Company, Limited	Oct. 17, 1949
National Silicates Limited	June 2, 1949

NORTHERN ONTARIO PROPERTIES

TOWNS

Bonfield	July 22, 1949
Latchford	Mar. 11, 1949

TOWNSHIPS

Atwood	May 10, 1949
Blue	April 29, 1949
Calvin	Nov. 21, 1949
Jaffrey and Melick	May 18, 1949
Larder Lake	April 4, 1949
Larder Lake	April 6, 1949
Machar	April 6, 1949
Machin	May 12, 1949
McCrosson and Tovell	May 12, 1949
McKim	June 24, 1949
Monteagle & Herschel	April 4, 1949
Neelon & Garson	Nov. 10, 1949
Playfair	Jan. 24, 1950
Rutherford and George Island	Nov. 21, 1949
Van Horne	May 12, 1949
Worthington	April 29, 1949

IMPROVEMENT DISTRICT

McGarry	Sept. 1, 1949

CORPORATIONS

Aquarius Porcupine Gold Mines Limited	Oct. 26, 1949
Bidgood-Kirkland Gold Mines Limited	Oct. 26, 1949
Boymar Gold Mines Limited	Feb. 22, 1949
Broulan Porcupine Mines Limited	Mar. 11, 1949
Canadian Johns-Manville Company, Limited	Nov. 22, 1949
Canadian Northern Ontario Railway Company	Oct. 31, 1949
Cathroy Larder Mines Limited	Sept. 1, 1949
Golden Arrow Mines Limited	Dec. 1, 1949
Goldhawk Porcupine Mines Limited	Aug. 2, 1949
Harrison-Hibbert Mines Limited	April 29, 1949
Hasaga Gold Mines Limited	Mar. 15, 1949
Hoyle Mining Company Limited	April 25, 1949
Kelore Mines Limited	April 6, 1949
Madsen Red Lake Gold Mines Limited	Jan. 31, 1950
Mattawa Electric Light and Power Company Limited	Dec. 12, 1949
Nakhodas Mining Company Limited	May 30, 1949
Pickle Crow Gold Mines Limited	April 4, 1949
Pickle Crow Gold Mines Limited	Jan. 31, 1950
Silver-Miller Mines Limited	May 30, 1949
Siscoe Metals Limited	April 4, 1949

APPENDIX II

RATES TO CONSUMERS IN RURAL POWER DISTRICTS—1949

A.—Uniform Rate Structure applicable to Farm service, Hamlet service, Commercial service and Summer service.

B.—Industrial Power Service—Rates to Consumers served through Facilities of Rural Operating Areas.

UNIFORM RURAL RATE STRUCTURE

The uniform rural rate structure in use for the sale of energy in 1949 incorporated a three-step energy charge, as follows:

1. A first block or number of kilowatt-hours of energy consumption in the billing period, charged for at 3.5 cents gross per kilowatt-hour.

2. A second block or number of kilowatt-hours of energy consumption in the billing period, charged for at 1.6 cents gross per kilowatt-hour; and

3. All remaining kilowatt-hours of energy consumption in the billing period, charged for at 0.75 cents gross per kilowatt-hour.

In addition, for Hamlet service there is a monthly service charge and for summer service there is an annual fixed charge.

Under these rate schedules, rural service is available in four main classes. All rural contracts for service carry a symbol consisting of a letter indicating the classification of the contract, followed by a number which indicates the demand rating or permissible demand contracted for in kilowatts. These classes and symbols are: Farm service, F; Hamlet service, H; Commercial service, C and Summer service, S.

The following are the rate schedules which were in force in 1949 for the main classes of service with various demand ratings:

RATE SCHEDULES FOR RURAL SERVICE

FARM SERVICE

Minimum demand rating for billing purposes—3 kilowatts

Farm rating	Demand in kw	Service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
						$ c
F3	3	Nil	60	180	Balance	2.25
F4	4	"	80	240	"	3.00
F5	5	"	100	300	"	3.75
F6	6	"	120	360	"	4.50
F7	7	"	140	420	"	5.25
F8	8	"	160	480	"	6.00
F9	9	"	180	540	"	6.75
F10	10	"	200	600	"	7.50

NOTE: Farm classes above F3 are computed by adding, for each month, 20 kw-hrs to the number of kw-hrs at the first rate, and 60 kw-hrs to the number of kw-hrs at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

HAMLET SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Hamlet rating	Demand in kw	Monthly service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
		cents				$ c
H2	2	56	40	80	Balance	1.67
H3	3	"	40	180	"	2.25
H4	4	"	60	240	"	3.00
H5	5	"	80	300	"	3.75
H6	6	"	100	360	"	4.50
H7	7	"	120	420	"	5.25
H8	8	"	140	480	"	6.00
H9	9	"	160	540	"	6.75
H10	10	"	180	600	"	7.50

NOTE: Hamlet classes above H3 are computed by adding, for each month, 20 kw-hrs to the number of kw-hrs at the first rate and 60 kw-hrs to the number of kw-hrs at the second rate for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

COMMERCIAL SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Commercial rating	Demand in kw	Monthly service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
						$ c
C1*	1	Nil	30	60	Balance	0.75
C2	2	"	60	120	"	1.50
C3	3	"	90	180	"	2.25
C4	4	"	120	240	"	3.00
C5	5	"	150	300	"	3.75
C6	6	"	180	360	"	4.50
C7	7	"	210	420	"	5.25
C8	8	"	240	480	"	6.00
C9	9	"	270	540	"	6.75
C10	10	"	300	600	"	7.50

NOTE: Commercial classes above C2 are computed by adding, for each month, 30 kw-hrs to the number of kw-hrs at the first rate and 60 kw-hrs to the number of kw-hrs at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

*Only available in combination with a hamlet service.

SUMMER SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Summer rating	Demand in kw	Annual fixed charge	Kw-hrs per annum at 3.5 cents per kw-hr	Kw-hrs per annum at 1.6 cents per kw-hr	Kw-hrs per annum at 0.75 cents per kw-hr	Minimum bill
		$ c				
S2	2	11.11	150	450	Balance	Nil
S3	3	15.56	225	675	"	"
S4	4	15.56	300	900	"	"
S5	5	16.67	375	1,125	"	"
S6	6	20.00	450	1,350	"	"
S7	7	23.33	525	1,575	"	"
S8	8	26.67	600	1,800	"	"
S9	9	30.00	675	2,025	"	"
S10	10	33.33	750	2,250	"	"

NOTE: Summer Service classes above S2 are computed by adding, for each year 75 kw-hrs to the number of kw-hrs at the first rate and 225 kw-hrs to the number of kw-hrs at the second rate for each increase of 1 kw in demand.

The annual fixed charge for all classes above S4 is $3.33 for each kw in demand.

Prompt payment discount 10 per cent.

DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE

The four main classes are described below. When the class of service which will meet the requirements of the individual consumer has been chosen, contracts are executed between the consumer and the corporation of the township concerned.

Farm Service

Farm service is considered to be service to property having lands used for the production of food stuff or industrial crops for sale and from which a substantial livelihood is obtained. It includes electrical service to all farm buildings and equipment situated on the farm and used for farm purposes, including buildings and equipment required for processing the products of the customer's farm.

Service under a single farm contract may be supplied to all dwellings or separate domestic establishments situated on the farm property and occupied by persons who are regularly engaged in the operation of the farm.

Additional dwellings or domestic establishments situated on a farm property and occupied by persons not regularly engaged in the operation of the farm, if served, are classed as hamlet contracts and rated accordingly. Small properties of five acres and less are classed as hamlet services except where special circumstances justify a farm classification.

The minimum demand rating of a farm service for billing purposes is three kilowatts.

Hamlet Service

Hamlet service is considered to be service to a domestic establishment or residence in a rural or in a small suburban community served as part of a rural operating area and includes isolated rural residences.

Commercial Service

Commercial service is considered to be service to community or business premises including schools, churches, public halls, hospitals, hotels, public boarding houses, tourist camps, business and professional offices, stores, repair shops, garages, gasoline stations, blacksmith and woodworking shops, small manufacturing and processing plants, chick hatcheries, sign and display lighting and all other premises used for commercial or community purposes.

Single-phase power only is supplied under a commercial contract. Where three-phase power is required, the service is classed as an "Industrial power service."

Summer Service

Summer service is applicable to properties where service is used normally only during the summer months and which are not established as the consumer's permanent residence. This service is not limited to cottages, but may include summer hotels, tourist camps, refreshment booths and other commercial premises.

The demand rating for Hamlet, Commercial and Summer service is two kilowatts for a two-wire service and is limited by a 20-ampere breaker or a 30-ampere fuse. If the demand exceeds two kilowatts, three-wire service is supplied and the minimum demand rating is three kilowatts.

STANDARD NUMBER OF CONSUMERS PER MILE

The number of consumers required per mile of line extension varies according to classification and rating of all applicants. For this purpose a unit rating is allocated to each consumer, according to the classification and rating.

The following table shows the number of units and contracts per mile for each class of service:—

Classification of consumer	Rating in kilowatts	Units per contract	Contracts per mile
Single Services			
Farm	3 and over	5	2
Hamlet	2	3	3.33
Hamlet	3	3	3.33
Hamlet	4	3	3.33
Hamlet	5 and over	4	2.5
Commercial	2	3	3.33
Commercial	3	3	3.33
Commercial	4	3	3.33
Commercial	5 and over	4	2.5
Summer	2	2	5
Summer	3	2	5
Summer	4	2	5
Summer	5 and over	3	3.33
Multiple Services			
Farm	3 and over	5	2
Hamlet	4	3	3.33
Hamlet	5 and over	4	2.5
Commercial	4	3	3.33
Commercial	5 and over	4	2.5
Summer	4	2	5
Summer	5 and over	3	3.33
Combination Services			
Total kilowatts of:			
Combined Farm with Hamlet or Commercial	4 and over	5	2
Combined Hamlet with Commercial	up to 4	3	3.33
Combined Hamlet with Commercial	5 and over	4	2.5

Industrial Power Service

Power service covers three-phase service to power users, such as creameries, cheese factories, chopping mills, industries and special loads, which cannot be supplied as Commercial single-phase service.

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Prompt payment discount
	SOUTHERN ONTARIO SYSTEM						
Western Region							
		$ c.	$ c.	cents	cents	cents	%
Aylmer	Aylmer	27.00	1.35	2.3	1.5	0.33	10
Blenheim	Blenheim	28.00	1.35	2.5	1.6	0.33	10
Bothwell	Bothwell	30.00	1.35	2.8	1.8	0.33	10
Chatham	Chatham	25.00	1.35	2.0	1.3	0.33	10
Delaware	Delaware	26.00	1.35	2.2	1.4	0.33	10
Dorchester	Dorchester	26.00	1.35	2.2	1.4	0.33	10
Essex	Essex	27.00	1.35	2.3	1.5	0.33	10
Exeter	Exeter	30.00	1.35	2.8	1.8	0.33	10
Forest	Forest	31.00	1.35	2.9	1.9	0.33	10
Harrow	Harrow	28.00	1.35	2.5	1.6	0.33	10
Ingersoll	Ingersoll	25.00	1.35	2.0	1.3	0.33	10
Kingsville	Kingsville	28.00	1.35	2.5	1.6	0.33	10
London	London	25.00	1.35	2.0	1.3	0.33	10
Lucan	Lucan	30.00	1.35	2.8	1.8	0.33	10
Merlin	Merlin	28.00	1.35	2.5	1.6	0.33	10
Norwich	Norwich	26.00	1.35	2.2	1.4	0.33	10
Oil Springs	Oil Springs	31.00	1.35	2.9	1.9	0.33	10
Ridgetown	Ridgetown	32.00	1.35	3.1	2.0	0.33	10
St. Thomas	St. Thomas	27.00	1.35	2.3	1.5	0.33	10
Sarnia	Sarnia	29.00	1.35	2.6	1.7	0.33	10
Tillsonburg	Tillsonburg	26.00	1.35	2.2	1.4	0.33	10
Wallaceburg	Wallaceburg	27.00	1.35	2.3	1.5	0.33	10
West Lorne	West Lorne	30.00	1.35	2.8	1.8	0.33	10
Windsor	Windsor	25.00	1.35	2.0	1.3	0.33	10
Woodstock	Woodstock	25.00	1.35	2.0	1.3	0.33	10
West Central Region							
Brantford	Brantford	26.00	1.35	2.2	1.4	0.33	10
Burlington	Burlington	25.00	1.35	2.0	1.3	0.33	10
Cayuga	Cayuga	33.00	1.35	3.2	2.1	0.33	10
Clinton	Clinton	31.00	1.35	2.9	1.9	0.33	10
Dundas	Dundas	25.00	1.35	2.0	1.3	0.33	10
Elmira	Elmira	26.00	1.35	2.2	1.4	0.33	10
Guelph	Guelph	24.00	1.20	2.1	1.4	0.30	10
Kitchener	Kitchener	26.00	1.35	2.2	1.4	0.33	10
Listowel	Listowel	26.00	1.35	2.2	1.4	0.33	10
Mitchell	Mitchell	28.00	1.35	2.5	1.6	0.33	10
Stoney Creek	Saltfleet	22.00	1.20	1.7	1.2	0.30	10
	Caledonia Section	25.00	1.35	2.0	1.3	0.33	10
Simcoe	Simcoe	28.00	1.35	2.5	1.6	0.33	10
Stratford	Stratford	26.00	1.35	2.2	1.4	0.33	10

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

SOUTHERN ONTARIO SYSTEM—Continued

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Prompt payment discount
Niagara Region							
		$ c.	$ c.	cents	cents	cents	%
Beamsville	Beamsville	24.00	1.20	2.1	1.4	0.30	10
Dunnville	Dunnville	27.00	1.35	2.3	1.5	0.33	10
St. Catharines	Niagara	23.00	1.20	1.9	1.3	0.30	10
Welland	Welland	20.00	1.20	1.4	0.9	0.30	10
Toronto Region							
Brampton	Brampton	26.00	1.35	2.2	1.4	0.33	10
Markham	Markham	26.00	1.35	2.2	1.4	0.33	10
Richmond Hill	Richmond Hill	26.00	1.35	2.2	1.4	0.33	10
Sutton	Sutton	28.00	1.35	2.5	1.6	0.33	10
Woodbridge	Woodbridge	27.00	1.35	2.3	1.5	0.33	10
Georgian Bay Region							
Alliston	Alliston	30.00	1.35	2.8	1.8	0.33	10
Bala	Bala	25.00	1.35	2.0	1.3	0.33	10
Barrie	Barrie	30.00	1.35	2.8	1.8	0.33	10
Bracebridge	Bracebridge	29.00	1.35	2.6	1.7	0.33	10
Cannington	Cannington	31.00	1.35	2.9	1.9	0.33	10
Orillia	Hawkestone	24.00	1.20	2.1	1.4	0.30	10
Huntsville	Huntsville	28.00	1.35	2.5	1.6	0.33	10
Markdale	Markdale	26.00	1.35	2.2	1.4	0.33	10
Penetanguishene	Midland	27.00	1.35	2.3	1.5	0.33	10
Orangeville	Orangeville	36.00	1.35	3.7	2.4	0.33	10
Owen Sound	Owen Sound	32.00	1.35	3.1	2.0	0.33	10
Parry Sound	Parry Sound	27.00	1.35	2.3	1.5	0.33	10
Shelburne	Shelburne	31.00	1.35	2.9	1.9	0.33	10
Stayner	Stayner	26.00	1.35	2.2	1.4	0.33	10
Uxbridge	Uxbridge	32.00	1.35	3.1	2.0	0.33	10
Walkerton	Walkerton	30.00	1.35	2.8	1.8	0.33	10
Wingham	Wingham	31.00	1.35	2.9	1.9	0.33	10
East Central Region							
Bancroft	Bancroft	40.00	1.35	4.3	2.8	0.33	10
Belleville	Belleville	24.00	1.20	2.1	1.4	0.30	10
Bowmanville	Bowmanville	26.00	1.35	2.2	1.4	0.33	10
Cobourg	Cobourg	25.00	1.35	2.0	1.3	0.33	10
Fenelon Falls	Fenelon Falls	28.00	1.35	2.5	1.6	0.33	10
Frankford	Frankford	23.00	1.20	1.9	1.3	0.30	10
	Brighton	23.00	1.20	1.9	1.3	0.30	10
Kingston	Kingston	25.00	1.35	2.0	1.3	0.33	10
Lakefield	Lakefield	25.00	1.35	2.0	1.3	0.33	10
Millbrook	Millbrook	28.00	1.35	2.5	1.6	0.33	10
Minden	Minden	28.00	1.35	2.5	1.6	0.33	10

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Prompt payment discount
SOUTHERN ONTARIO SYSTEM—Concluded							
East Central Region—Continued							
		$ c.	$ c.	cents	cents	cents	%
Napanee	Napanee	24.00	1.20	2.1	1.4	0.30	10
Norwood	Norwood	31.00	1.35	2.9	1.9	0.33	10
Oshawa	Oshawa	25.00	1.35	2.0	1.3	0.33	10
Peterborough	Peterborough	20.00	1.20	1.4	0.9	0.30	10
Picton	Picton	29.00	1.35	2.6	1.7	0.33	10
Tweed	Tweed	34.00	1.35	3.4	2.2	0.33	10
Eastern Region							
Arnprior	Arnprior	25.00	1.35	2.0	1.3	0.33	10
Brockville	Brockville	25.00	1.35	2.0	1.3	0.33	10
Delta	Delta	26.00	1.35	2.2	1.4	0.33	10
Lancaster	Martintown	33.00	1.35	3.2	2.1	0.33	10
Ottawa	Ottawa	22.00	1.20	1.7	1.2	0.30	10
Perth	Perth	26.00	1.35	2.2	1.4	0.33	10
	Carleton Place	24.00	1.20	2.1	1.4	0.30	10
Plantagenet	Plantagenet	33.00	1.35	3.2	2.1	0.33	10
Cobden	Renfrew	25.00	1.35	2.0	1.3	0.33	10
Winchester	Winchester	26.00	1.35	2.2	1.4	0.33	10
THUNDER BAY SYSTEM							
Northwestern Region							
Thunder Bay	Thunder Bay	24.00	1.20	2.1	1.4	0.30	10
NORTHERN ONTARIO PROPERTIES							
Northeastern Region							
Cochrane	Cochrane	40.00	1.35	4.3	2.8	0.33	10
Matheson	Connaught	34.00	1.35	3.4	2.2	0.33	10
Kagawong	Manitoulin	35.00	1.35	3.5	2.3	0.33	10
North Bay	North Bay	34.00	1.35	3.4	2.2	0.33	10
	Crystal Falls	40.00	1.35	4.3	2.8	0.33	10
Sudbury	Sudbury	30.00	1.35	2.8	1.8	0.33	10
New Liskeard	Timiskaming	33.00	1.35	3.2	2.1	0.33	10
Northwestern Region							
Dryden	Dryden	40.00	1.35	4.3	2.8	0.33	10
Kenora	Kenora	40.00	1.35	4.3	2.8	0.33	10
Fort Frances	Rainy River	40.00	1.35	4.3	2.8	0.33	10
Sioux Lookout	Sioux Lookout	40.00	1.35	4.3	2.8	0.33	10

APPENDIX III

SUPPLEMENTARY MATERIAL RELATING TO

SECTION VI—ENGINEERING AND CONSTRUCTION

Comprising:

1. A list of other projects, in addition to those described in Section VI, completed or under construction in 1949.
2. Tabulation showing changes in transformer capacity during the year ended October 31, 1949.
3. Transmission line changes and additions made during the year ended October 31, 1949.
4. A list of the changes made in connection with the communication facilities of the Commission in all systems—Telephone, Power Line Carrier, Telemetering Circuits and Radio.

OTHER PROJECTS

In the electrical engineering field the following paragraphs deal briefly with a number of other projects completed or under construction in 1949.

SOUTHERN ONTARIO SYSTEM

Southwestern Ontario

Allanburg—The two 75,000-kva voltage regulators and 115-kv switching equipment were placed in service on June 9, 1949.

Galt—The construction of the new 16,000-kva transformer station mentioned in the 1948 report is nearing completion. The station will be placed in service in December 1949.

Guelph—Work is progressing on the installation of the autotransformers at Guelph transformer station.

Kitchener—The new 16,000-kva transformer station, referred to in the 1948 annual report as under construction, was completed and placed in service on July 17, 1949.

London—Work has commenced at London transformer station to remove one 25-cycle, 15,000 kva transformer bank and install two 31,500-kva, 60-cycle transformer banks. The first 60-cycle bank is expected to be ready for service in September 1950 and the second bank at a later date.

The following abbreviations are used as required in this Section of the Annual Report:

hp.	horsepower—unit of capacity
kw	kilowatt (s)—unit of capacity
kwhrs	kilowatt-hours—unit of energy
kv	kilovolt (s)
kva	kilovolt-ampere (s)

London-Nelson—Work on the new 54,000-kva, 60-cycle transformer station referred to in the 1948 annual report is progressing on schedule and the station is expected to go into service in March 1950.

St. Catharines—Major equipment has been ordered and construction commenced to increase the 115-kv transformer capacity from 16,000-kva to 45,000 kva. The additional capacity is scheduled for service in October 1950.

St. Clair—At the transformer station the initial 27,000-kva, 60-cycle, 115/26.4-kv bank of transformers and associated equipment is being installed. It is expected this increased capacity will be in service in September 1950.

Seaforth—A new 115/26.4-kv transformer station is under construction, which will have a capacity of 16,000-kva at 60 cycles and is scheduled for service in August 1950.

Strathroy—A new high voltage transformer station is being erected with a capacity of 15,000 kva, 60 cycles, having a voltage rating of 115/26.4 kv. It is expected to be placed in service in May 1950.

Tillsonburg—Good progress is being made on the new 115-kva, 8,000-kva, 25-cycle station, which is expected to commence service in February 1950.

Windsor—The major equipment is being ordered for the new 115-kv, 54,000-kva, 60-cycle station, which is scheduled for service in April 1951.

Toronto and Hamilton Areas

Armitage—The construction of the 60-cycle, 115/26.4-kv, 22,400-kva Armitage transformer station near Newmarket is progressing favourably and it is expected that the station will be ready for service at its scheduled date in 1950.

Hamilton Beach—Work has commenced in connection with the installation of two 25,000-kva, 60-cycle transformer banks with a voltage rating of 115/13.2 kv and two 15,000-kva, 60-cycle transformer banks with a voltage rating of 115/44 kv. These banks are scheduled for service in April 1951.

Hamilton-Gage—The fifth 25,000-kva transformer was installed and will be ready for service in November 1949. This will increase the transformer capacity of the station to 125,000 kva.

Hamilton-Stirton—The work of increasing the capacity of the transformer station from 30,000 kva to 60,000 kva was completed on February 28, 1949.

Toronto-Esplanade—The additional transformer capacity of 50,000 kva, referred to in the 1948 report, was placed in service on October 31, 1949.

Toronto-John—The major equipment for the new 60,000-kva, 115/13.2-kv, 25-cycle transformer station in downtown Toronto, to be known as Toronto-John transformer station, has been ordered and construction is expected to commence early in 1950. The station is scheduled for service in January 1951.

Toronto-Wiltshire—Work is continuing on the increased capacity at this transformer station.

High-Voltage, Oil Circuit-Breaker Changes

The 1948 annual report referred to the replacement of high-voltage, oil circuit-breakers at a number of transformer stations.

This work has been completed at the following stations: Toronto-Leaside, Toronto-Fairbank, Essex, Crowland, Burlington, Atlas Steel and Thorold, and is progressing at Toronto-Bridgman, Toronto-Wiltshire, St. Thomas, London, Kent and Stratford.

Eastern Ontario and Georgian Bay Areas

Beaverton—The 600-kva distributing station was replaced by a new 1,000-kva, 44-kv station which was placed in service on October 23, 1949.

Brockville—The construction of a 2,000-kva, 44/2.4-kv station for Brockville Public Utilities Commission was commenced.

Brooklin—A new distributing station of 2,000-kva capacity is under construction.

Chalk River—A new distributing station of 300-kva capacity was erected at Chalk River to supply the Village of Chalk River.

Cobden—The new 3,000-kva, 115/11-kv transformer station which was referred to in the 1948 report, was placed in service on August 14, 1949. The station comprises four 1,000-kva transformers rated 115/44 to 11-kv, one being a spare unit.

Cobourg—The transformer capacity of the distributing station is being increased from 2,250 to 4,000 kva.

Cornwall—The transformer capacity of the station was increased by the addition of three 5,000-kva transformers and one 15,000-kva voltage-regulator, which results in a total capacity of 30,000-kva. This installation was referred to in the 1948 report as being under construction.

Elmvale—In order to supply the growing power demand in the adjoining rural area, a new 300-kva, 44/8-kv station was placed in service on February 9, 1949.

Mallorytown—A new distributing station of 1,000-kva capacity is under construction.

Martintown—The transformer capacity of the distributing station is being increased from 600-kva to 2,000-kva.

Ottawa—The installation of the second 15,000-kva transformer bank and associated equipment at Ottawa-Riverdale transformer station, which was reported in the 1948 report as under construction, was completed and placed in service on March 10, 1949.

Owen Sound—Construction was continued on a 3,000-kva, 44/4-kv substation for Owen Sound Public Utilities Commission.

Parry Sound—The new distributing station of 2,000-kva capacity is expected to be ready for service early in 1950.

Preneveau—The new 2,000-kva distributing station referred to in the 1948 report was placed in service on January 9, 1949.

Six new distributing stations referred to in the 1948 report as being under construction were placed in service during the year. These are at Emsdale, with a capacity of 1,000 kva; Nottawaga, with a capacity of 1,000 kva; Paisley No. 2, with a capacity of 1,000 kva Walkerton No. 2, with a capacity of 1,000 kva; Hanover No. 2, with a capacity of 1,000 kva. and Wingham No. 2, with a capacity of 2,000 kva.

Plans are under way for the construction of line and station facilities to supply power to Barry's Bay and district. It is expected that the equipment for this service will be ready early in 1950.

THUNDER BAY SYSTEM

Fort William—The work of installing additional 115-kv line switching equipment at the transformer station has commenced. This is required to connect with the new transmission line from Pine Portage generating station.

Kakabeka Falls—Near Kakabeka Falls a new 1,000-kva, 22/12-kv station was erected and placed in service August 15, 1949 to supply power to the Thunder Bay rural operating area.

Rosslyn—The transformer capacity of the distributing station was increased from 1,000-kva to 2,000 kva on July 1949 to supply increase power demand from the Thunder Bay rural operating area.

NORTHERN ONTARIO PROPERTIES

Azilda—The capacity of the transformer station was increased from 1,000 kva to 4,500 kva in October 1949.

Copper Cliff—The installation of the 115-kv switching equipment at the International Nickel Company's station continues and it is expected that the facilities will be in service early in 1950.

Earlton—The new distributing station of 1,000-kva capacity, referred to in the 1948 report, was placed in service in October 1949.

Gowganda—In order to serve the Gowganda mining area a 3,000-kva, 115/12-kv transformer station was constructed and placed in service in February 1949.

Hollinger Pumps—The new 1,000-kva distributing station was placed in service during the year and work continued on the autotransformer stations for Coniaurum, McIntyre and Dome mines.

Manitoulin—A temporary 600-kva, 44/12-kv distributing station was erected and placed in service on October 5, 1949. The station will transmit power obtained from the International Nickel Company to supply the Manitoulin rural operating area. A permanent station to replace the temporary station is scheduled for service some time in 1950.

Matheson—The 1,000-kva distributing station, mentioned in the 1948 report, was placed in service in March 1949.

Moose Lake—A new 30,000-kva, 115/44-kv transformer station is under construction adjacent to the Moose Lake condenser station acquired in 1949 from Ontario-Minnesota Pulp and Paper Company. The new transformer station will supply additional power to the Steep Rock Iron Mines Limited and is scheduled for service in July 1950.

Sioux Lookout—A new distributing station of 100-kva capacity was erected and placed in service on August 11, 1949 to supply power to Sioux Lookout rural operating area. The Sioux Lookout distributing station No. 1 was increased from 450 kva to 1,000-kva capacity.

South Porcupine—Work continued on the new distributing station.

Timagami—A new distributing station with a capacity of 500 kva was placed in service on August 9, 1949.

Timmins—The additional transformer capacity and switching equipment required at Timmins transformer station to receive power from Lower Sturgeon generating station was completed in September 1949.

Virginiatown—A new distributing station with a capacity of 1,000 kva was placed in service on October 18, 1949.

Warren—The new 1,000-kva distributing station, required to supply power to Crystal Falls rural operating area, is expected to be ready for service in January 1950.

The amalgamation of the stations and lines in the Abitibi and Timiskaming districts is continuing, particularly in the Porcupine and Larder Lake areas.

The rehabilitation of lines and stations acquired from the Northern Ontario Power Company, in the area between Kirkland Lake and Matabitchuan is proceeding.

CHANGES IN TRANSFORMER CAPACITY

DURING YEAR ENDED OCTOBER 31, 1949

Station	Type*	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM								
Apsley	D.S.	May 29, 1949	1	600	3	600	...	....
Bartonville	D.S.	Feb. 20, 1949	3	667	1	2,000	3	250
Beaverton	D.S.	Oct. 23, 1949	1	1,000	3	1,000	6	100
Berkeley	D.S.	Nov. 3, 1948	1	100	1	100	...	....
Blyth	D.S.	Sept. 18, 1949	3	333/600	1	1,000/1,800	...	....
Brigden	D.S.	Jan. 25, 1949	1	600	3	600	1	150
Brighton No. 2	D.S.	Mar. 23, 1949	1	600	3	600	...	....
Bronte	D.S.	Mar. 20, 1949	1	1,000	3	1,000	6	50
Caledonia	D.S.	May 22, 1949	3	333	1	1,000	...	....
Campbellcroft	D.S.	April 1, 1949	3	333	1	1,000	...	....
Cannington	D.S.	Nov. 28, 1948	1	1,000	1	1,000	3	150
Carleton Place	D.S.	June 5, 1949	3	250/333	1	1,000/750	3	100
Centreville	D.S.	June 12, 1949	1	2,000/3,600	3	6,000/10,800	1	600
Chalk River	D.S.	Aug. 21, 1949	3	100	1	300	...	....
Chatham	D.S.	Jan. 16, 1949	3	333	1	1,000	...	....
Chesterville	D.S.	June 19, 1949	1	1,000	3	1,000	1	300
Cobden	T.S.	Aug. 14, 1949	3	1,000	1	3,000	...	....
Cornwall	T.S.	Feb. 27, 1949	3	5,000	1	15,000	...	....
Delaware	D.S.	Aug. 28, 1949	3	667/1,200	1	2,000/3,600	3	250
Dover Centre	D.S.	Nov. 18, 1948	3	333	1	1,000	...	....
Emsdale	D.S.	June 3, 1949	3	333	1	1,000	...	....
Elmvale	D.S.	Feb. 9, 1949	3	100	1	300	...	....
Embro	D.S.	July 24, 1949	3	333/660	1	1,000/1,200	3	200
Falkenburg	D.S.	Aug. 11, 1949	3	333	1	1,000	3	200
Farrans Point	D.S.	Nov. 11, 1948	1	100	1	100	1	50
Hamilton Stirton	T.S.	Feb. 28, 1949	6	10,000	1	60,000	6	5,000
Hanover No. 2	D.S.	April 22, 1949	1	1,000	1	1,000	...	....
Highgate	D.S.	Nov. 7, 1948	1	600	3	600	...	....
Ilderton	D.S.	June 12, 1949	3	333	1	1,000	3	150
Iroquois	D.S.	Dec. 12, 1948	1	750	3	750	1	300

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1949

Station	Type*	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN OOTARIO SYSTEM—Continued								
Kincardine	D.S.	July 29, 1949	1	2,000	3	2,000	3	250
Kipling	T.S.	Mar. 6, 1949	2	25,000/45,000	3	50,000/90,000	...	....
		Sept. 18, 1949	3	25,000	1	75,000	...	....
Kitchener	T.S.	July 17, 1949	2	8,000/14,400	3	16,000/28,800	...	....
Lucan	D.S.	Dec. 19, 1948	3	333	1	1,000	3	150
Markdale	D.S.	May 26, 1949	1	600	3	600	...	....
Meaford No. 1	D.S.	Aug. 21, 1949	3	667	1	2,000	3	250
Meaford No. 2	D.S.	Oct. 30, 1949	3	667	1	2,000	3	200
Morrisburg	D.S.	July 14, 1949	2	75	1	150	...	....
Mountain Lake	D.S.	Aug. 5, 1949	1	37.5	1	37.5	...	....
Nottawaga	D.S.	June 30, 1949	1	1,000	3	1,000	...	....
Omemee	D.S.	Jan. 23, 1949	3	200	1	600	3	100
Orono	D.S.	May 17, 1949	1	1,000	3	1,000	...	....
Oshawa	T.S.	May 8, 1949	3	5,000	1	15,000	...	....
Oshawa R.C.C.S.	D.S.	Mar. 27, 1949	3	200	1	600	...	....
Ottawa-Riverdale	T.S.	Mar. 10, 1949	3	5,000	1	15,000	...	....
Owen Sound No. 2	D.S.	June 26, 1949	3	200	1	600	3	100
Paisley No. 2	D.S.	Mar. 27, 1949	3	333	1	1,000	3	50
Palmerston	T.S.	Oct. 2, 1949	1	8,000/14,400	3	8,000/14,400	...	8,000
Parry Sound	D.S.	Dec. 31, 1948	2	75	1	150	...	....
Petrolia	D.S.	Dec. 9, 1948	3	667	1	2,000	3	300
Point Edward	D.S.	Oct. 9, 1949	1	2,000/3,600	3	2,000/3,600	...	....
Polymer	D.S.	Nov. 1, 1948	2	12,500	3	25,000	...	....
Port Rowan	D.S.	Sept. 7, 1949	...	....	...	....	3	37.5
Pottageville	D.S.	May 4, 1949	3	333/600	1	1,000/1,800	3	150
Preneveau	D.S.	Jan. 9, 1949	3	667	1	2,000	...	....
Rainham	D.S.	Sept. 25, 1949	1	600	3	600	1	300
Ryckman	D.S.	April 24, 1949	3	500	1	1,500	3	333
St. Davids	D.S.	July 10, 1949	1	300	3	300	...	....
Sarnia	T.S.	Aug. 10, 1949	1	25,000	3	25,000	2	8,000/14,000
Scarborough	F.C. & T.S.	May 5, 1949	2	25,000	3	50,000	...	....
	F.C. & T.S.	Oct. 15. 1949	2	14,000	3	14,000	...	....
Science Hill	D.S.	April 13, 1949	1	1,000	3	1,000	...	....
Seaforth	D.S.	Oct. 18, 1949	3	200	1	600	3	75
Smiths Falls No. 1	D.S.	Nov. 15, 1948	1	2,000	3	2,000	...	....
Strathroy	D.S.	Sept. 14, 1949	3	333/600	1	1,000/1,800	3	200
Tara	D.S.	Mar. 28, 1949	3	100	1	300	3	50
Thamesville	D.S.	Aug. 7, 1949	3	333/600	1	1,000/1,800	3	150
Thorah	D.S.	Dec. 19, 1948	3	667	1	2,000	3	200
Thorold South	D.S.	Jan. 6, 1949	1	600	3	600	...	....
Thornhill	D.S.	Oct. 6, 1949	3	667/1,200	1	2,000/3,600	3	250
Thornton	D.S.	....	...	....	...	....	1	75
Toronto Esplanade	T.S.	Oct. 31, 1949	2	25,000/45,000	3	50,000/90,000	...	....
Toronto Township	D.S.	Sept. 11, 1949	1	2,000/3,600	3	2,000/3,600	...	250
Trafalgar Township	D.S.	Nov. 23, 1948	1	1,000	3	1,000	...	....
Trenton	D.S.	April 21, 1949	3	333	1	1,000	3	100
Tweed	D.S.	Nov. 23, 1948	1	100	1	100	...	....
Utterson	D.S.	July 12, 1949	3	333	1	1,000	3	200
Uxbridge	D.S.	April 5, 1949	3	333	1	1,000	3	100
Vienna	D.S.	Sept. 13, 1949	3	333/600	1	1,000/1,800	...	....
Walkerton	D.S.	June 12, 1949	1	1,000	1	1,000	...	....
Walkerton	R.S.	June 17, 1949	...	....	...	....	3 3	50 75

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1949

Station	Type*	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM—Continued								
Wallaceburg No. 2	D.S.	Jan. 5, 1949	3	333	1	1,000	...	...
Wallaceburg	R.S.	Jan. 16, 1949	...	...	...	...	3	50
							3	75
West Flamboro	D.S.	July 14, 1949	1	1,000/1,800	3	1,000/1,800	...	...
West Hill	D.S.	Sept. 23, 1949	3	333/600	1	1,000/1,800	3	250
Westminster	T.S.	Nov. 1, 1948	2	25,000	3	50,000	...	...
	T.S.	April 1, 1949	2	25,000	3	50,000	...	...
THUNDER BAY SYSTEM								
Beardmore	D.S.	Nov. 21, 1948	1	100	1	100	...	...
Kakabeka	D.S.	Aug. 15, 1949	3	333	1	1,000	...	...
Nipigon	D.S.	April 27, 1949	3	50	1	150	...	...
Port Arthur	D.S.	May 5, 1949	3	333	1	1,000	3	150
							3	200
Rosslyn	D.S.	July 24, 1949	3	667	1	2,000	3	333
Schreiber	D.S.	July 10, 1949	3	200	1	600	...	...
NORTHERN ONTARIO PROPERTIES								
Abitibi District								
Azilda	T.S.	Oct. 2, 1949	3	1,500	1	4,500	1	1,000
Connaught	D.S.	May 18, 1949	3	200	1	600	3	333
Gowganda	T.S.	Feb. 28, 1949	2	1,000	1	...	...	...
		Feb. 28, 1949	1	3,000	1	3,000	...	...
Larder Lake	T.S.	Oct. 2, 1949	...	...	...	...	3	1,500
Larder Lake	D.S.	Oct. 19, 1949	3	150	1	450	...	...
Matheson	D.S.	Mar. 7, 1949	3	333	1	1,000	...	...
Smooth Rock Falls	D.S.	June 5, 1949	3	200	1	600	3	100
Swastika	D.S.	July 22, 1949	3	250	1	750	...	...
Timmins	T.S.	Sept. 29, 1949	3	2,500	1	7,500	...	...
Timiskaming District								
Earlton	D.S.	Oct. 18, 1949	3	333	1	1,000	...	...
Hollinger Pumps	D.S.	May 18, 1949	3	333	1	1,000	3	200
Timagami	D.S.	Aug. 9, 1949	1	500	1	500	...	...
Virginiatown	D.S.	Oct. 18, 1949	3	333	1	1,000	...	...
Sudbury District								
Nairn	D.S.	Dec. 15, 1948	1	75	1	75	...	...
Sudbury	D.S.	May 14, 1949	3	667	1	2,000	3	333
Sudbury	F.C. & T.S.	Sept. 11, 1949	2	8,000	3	16,000	...	...
Nipissing District								
North Bay	D.S.	July 13, 1949	3	667	1	2,000	3	333
Manitoulin District								
Little Current	D.S.	Oct. 5, 1949	3	200	1	600	...	...
Patricia District								
Sioux Lookout No. 1	D.S.	July 24, 1949	3	333	1	1,000	3	150
Sioux Lookout No. 2	D.S.	Aug. 11, 1949	1	100	1	100	...	...

TRANSMISSION LINE CHANGES AND ADDITIONS

MADE DURING THE YEAR ENDED OCTOBER 31, 1949

SOUTHERN ONTARIO SYSTEM

HIGH-VOLTAGE LINES

A 230-kv, single-circuit, steel-tower transmission line was built from Cumberland switching station 194.57 miles to Enniskillen junction.

A 230-kv, single-circuit, steel-tower transmission line was built from Enniskillen junction 33.16 miles to Leaside junction.

A 230-kv, double-circuit, steel-tower transmission line was built from Leaside junction 16.36 miles to Richview junction, erecting only one circuit at that time.

A 230-kv, double-circuit, steel-tower transmission line was built from Richview junction 3.96 miles to Kipling transformer station. This is the westerly one of three parallel lines being built.

A 230-kv, single-circuit, steel-tower transmission line was built from Allanburg transformer station 103.59 miles to Westminster transformer station. This line was operated initially at 115,000 volts.

A 115-kv, double circuit, steel-tower transmission line was built from Wiltshire junction 2.41 miles to Bridgman transformer station, replacing two old Toronto and Niagara Power Company lines.

A 115-kv, four-circuit, steel-tower transmission line was built from St. Clair junction 0.36 mile to Wiltshire junction, replacing two old Toronto and Niagar Power Company lines. Two of the circuits were strung.

A 115-kv, double-circuit, steel-tower transmission line was built from Wiltshire junction 0.12 mile to Wiltshire transformer station, replacing two old Toronto and Niagara Power Company lines.

A portion of 115-kv, double-circuit, steel-tower transmission line was rebuilt for a distance of 1.95 miles on a new right-of-way south of Horning Mountain junction.

A 115-kv, single-circuit, steel-tower transmission line was built from Ellwood junction 2.16 miles to Riverdale junction.

A second 115-kv circuit was erected on double-circuit, steel towers from Riverdale junction 1.43 miles to Riverdale transformer station.

A 115-kv circuit was erected on the north side of 230-kv, double circuit, steel towers from Ellwood junction 4.68 miles and on 5 wood poles 0.66 mile to Merivale switching station.

A 115-kv circuit was replaced with heavier conductor from Ottawa junction 3.32 miles to Merivale switching station.

Three sections of 115-kv, single circuit, wood pole transmission line from Merivale switching station east to Cyrville junction and a tap to Ottawa transformer station, totalling 13.73 miles, were removed.

LOW-VOLTAGE LINES

Niagara Division

Dundas District:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Governor's Road junction 1.37 miles to West Flamboro distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Waterdown distributing station 8.19 miles to Carlisle distributing station.

Guelph District:—A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Andrews' junction 0.38 mile to Beatty Brothers' station.

Stratford District:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Hullett junction 9.20 miles to Blyth distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Palmerston transformer station 6.13 miles to Rothsay distributing station.

ST. MARYS DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Marys' transformer station 5.65 miles to Science Hill distributing station.

WOODSTOCK DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Tillsonburg transformer station 15.16 miles to Vienna distributing station.

A 26.4-kv, wood-pole transmission line was built from Tillsonburg transformer station 0.33 mile to Fourth Street junction.

ST. THOMAS DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Thomas East junction 7.43 miles to Belmont distributing station.

COOKSVILLE DISTRICT:—Five sections of 13.2-kv, transmission line, totalling 18.65 miles, were reinsulated and the voltage raised to 26.4-kv.

KENT DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Wallaceburg transformer station 3.03 miles to Wallaceburg municipal station.

A 26.4-kv, single-circuit wood-pole transmission line was built from Wallaceburg transformer station 2.65 miles to Wallaceburg distributing station.

A 26.4-kv, single circuit was erected on the top of trunk telephone line poles from Highgate junction 5.77 miles to Highgate distributing station.

ESSEX DISTRICT:—A portion of a 26.4-kv line was rerouted to clear a drainage ditch from Comet junction 1.13 miles to Comet distributing station.

YORK DISTRICT:—A great number of the sections in this district were transferred to Kipling District in June, 1949, when these sections were rearranged to be fed from Kipling transformer station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Sheaffer junction 0.10 mile to Sheaffer Pen Company.

A 26.4-kv, single-circuit line tap was made from Swansea municipal station 0.04 mile to the Steel Company of Canada.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Salisbury junction 0.98 mile to Christie Brown Company.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Church Street junction 0.11 mile to Mimico municipal station No. 2.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Athol Street junction 0.24 mile to Norseman Street junction.

A 26.4-kv tap was made to a new distributing station known as Highfield.

ST. CLAIR DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Water Street junction 0.46 mile to Point Edward distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Oil City junction 6.90 miles to Brigden distributing station.

A portion of 26.4-kv, wood-pole line was built from Oil City junction 0.51 mile to a new Petrolia distributing station.

A portion of 26.4-kv, wood-pole line was built from Petrolia distributing station 3.21 miles to Forest junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Wellington Street junction 0.41 mile to Sarnia municipal station No. 3.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Sarnia transformer station 1.53 miles to Fibreglas Canada Limited.

A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Clair transformer station 8.16 miles to Perch junction.

A 26.4-kv, single circuit, wood-pole transmission line was built from Andrews junction 0.86 mile to Andrews Wire Works.

A 26.4-kv, wood-pole line was restrung with heavier conductor from Forest junction 2.33 miles to Wyoming junction.

A 26.4-kv, wood-pole line was restrung with heavier conductor from Wyoming junction 3.44 miles to Wanstead junction.

A portion of 26.4-kv, double-circuit, wood-pole line was rerouted a distance of 0.39 mile between St. Clair transformer station and St. Clair junction.

LEASIDE-SCARBOROUGH DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough frequency-changer and transformer station 1.15 miles to Kennedy Road junction.

A second 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough frequency-changer and transformer station 1.10 miles to Kennedy Road junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Kennedy Road junction 3.08 miles to East York municipal station No. 8.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Kennedy Road junction 2.53 miles to Mack Street junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Mack Street junction 0.30 mile to Metal Stampings Company.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough frequency-changer and transformer station 1.94 miles to Birchmount junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Mack Street junction 0.33 mile to Patterson Foundry and Machine Company.

A 26.4-kv, single-circuit, wood-pole transmission line was built 0.43 mile from East York municipal station No. 8 to O'Connor junction.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Wardin Avenue junction 0.71 mile to Birchmount junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough transformer station 2.05 miles to Bendale junction. This includes part of an old section rebuilt and restrung.

Eleven sections of 13.2-kv line, totalling 15.23 miles, were reinsulated and the voltage raised to 26,400 volts.

FAIRBANK DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Fairbank transformer station 6.34 miles to Albion Park distributing station.

A 26.4-kv tap was made to a North York Township station situated on Queen's drive.

A 26.4-kv tap was also made to a North York township station at the de Havilland Aircraft Company.

KIPLING DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Kipling transformer station 1.86 miles to Fourth Avenue junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Fourth Avenue junction 0.73 mile to Birmingham junction.

Two 26.4-kv, single-circuit and parallel wood-pole transmission lines were built from Kipling transformer station, 0.26 mile each, to Witley Street junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Horner Avenue junction 0.85 mile to New Toronto distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Birmingham junction 0.46 mile to New Toronto distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Allan Street junction 0.28 mile to Barringham Rubber Company at Oakville.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Kipling transformer station 1.28 miles to York transformer station.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Kipling transformer station 0.59 mile to Hollywood distributing station.

A 26.4-kv, single-circuit, wood-pole line was restrung with heavier conductor from Hollywood distributing station 0.98 mile to Horner Avenue junction.

CROWLAND DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Crowland transformer station 6.33 miles to Robbins junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Robbins junction 3.52 miles to Sherkston distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Robbins junction 4.50 miles to Stevensville distributing station.

ALLANBURG DISTRICT:—A 12-kv tap was made to Thorold South distributing station.

Georgian Bay Division

Bala District:—A 44-kv, single-circuit, wood-pole transmission line from Seguin River junction 0.44 mile to Parry Sound station was purchased from the Parry Sound Public Utilities Commission.

Eugenia District:—A 44-kv, single-circuit, wood-pole transmission line was built from Arthur Street junction 0.24 mile to Wingham distributing station No. 2.

A 44-kv tap connection, 0.02 mile, was built to Walkerton distributing station.

A 44-kv tap connection, 0.01 mile, was built to Markdale distributing station.

A 44-kv, single-circuit, wood-pole transmission line was partly replaced and partly rebuilt from Dunn Street junction 10.43 miles to Paisley distributing station.

Muskoka District:—A 44-kv, single-circuit, wood-pole transmission line was built from Huntsville distributing station 17.16 miles to Emsdale distributing station.

Severn District:—A 44-kv, single-circuit, wood-pole transmission line was built from Scott Street junction 7.40 miles to Nottawaga distributing station.

A 22-kv, single-circuit, wood-pole transmission line from Thornton junction 1.85 miles to Thornton distributing station was removed.

A 22-kv tap connection, 0.01 mile, was built to Midland municipal station No. 2.

Four sections of 22-kv transmission line were reinsulated and the voltage raised to 44,000 volts.

Wasdell District:—Four sections of 22-kv, wood-pole transmission line, totalling 17.89 miles were reinsulated and the voltage raised to 44,000 volts.

Eastern Ontario Division

Central District:—A 44-kv, single-circuit, wood-pole transmission line was built from Picton distributing station 0.83 mile to Picton municipal station.

A 44-kv, single-circuit, wood-pole transmission line was built from Rifle Range junction 0.47 mile to the Bakelite Company of Canada Limited.

A 44-kv, single-circuit, wood-pole transmission line was built from Deloro distributing station 6.81 miles to Moira Lake junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Curve Inn junction 5.75 miles to Orono distributing station.

A 44-kv, single-circuit, wood-pole transmission line was built from Eels Lake junction 19.66 miles to Bancroft distributing station.

A 44-kv, single-circuit, wood-pole transmission line was built from Perth Road junction 5.13 miles to Kingston Mills distributing station.

Two 44-kv, single-circuit, parallel wood-pole transmission lines, each 0.60 mile, were restrung with heavier conductor from Lehigh junction to the Lehigh Canada Cement Company distributing station.

A 44-kv, single-circuit, wood-pole transmission line from Fenelon Falls generating station 13.64 miles to Lindsay distributing station, operated at 11 kv since December, 1940, was raised to 44-kv operation.

A 44-kv, single-circuit, wood-pole transmission line from Picton rural distributing station 0.43 mile to Picton distributing station was removed.

A 6.6-kv, single-circuit, wood-pole transmission line from Heely Falls generating station 5.85 miles to the Ontario Rock Company was removed.

A 44-kv tap connection of 0.015 mile was built to the Royal Canadian Corps of Signals distributing station near Oshawa.

A 44-kv tap connection of 0.04 mile was built to Apsley distributing station.

Rideau District:—A 26.4-kv, single-circuit, wood-pole transmission line was rebuilt and restrung from Rideau junction 10.26 miles to Merrickville generating station.

St. Lawrence District:—A 44-kv, single circuit, transmission line was rebuilt pole-top-pin, after the skywire had been removed, from Plat junction 7.69 miles to Iroquois distributing station.

THUNDER BAY SYSTEM

A 12-kv circuit from Cameron Falls generating station 1.45 miles to Alexander generating station was removed.

A portion of 44-kv, wood-pole transmission line was relocated to clear the Canadian National Railways siding at Beardmore, a distance of 1.30 miles.

Five 22-kv, wood-pole transmission line sections, totalling 40.34 miles, were purchased from the Kaminstiquia Power Company. These lines deliver to Fort William the hydro-electric power generated at Kakabeka Falls.

NORTHERN ONTARIO PROPERTIES

Abitibi District:—A 132-kv, twin-pole, single-circuit transmission line was built from Gull Lake junction 2.06 miles to Kirkland Lake switching station.

A 132-kv, twin-pole, single-circuit transmission line was built from Larder Lake junction 1.50 miles to Larder Lake transformer station.

A portion of the 132-kv, wood-pole transmission line from Tisdale junction to Pamour transformer station was resited for a distance of 0.93 mile.

A portion of 115-kv, twin-pole transmission line, purchased from the Northern Ontario Power Company, was rehabilitated from Elk Lake transformer station 20.54 miles to Gowganda transformer station and energized at 132-kv.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Ramore junction 7.02 miles to Matheson distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line from Kerr Addison junction 0.63 mile to the Kerr Addison Mine was removed.

The insulation on the 132-kv, single-circuit, wood-pole transmission line from Kirkland Lake switching station 17.96 miles to Larder Lake transformer station was reduced to 44 kv and the lines rearranged to feed 44 kv from Kirkland Lake transformer station.

The 26.4-kv, single-circuit, wood-pole transmission line from Larder Lake transformer station to near Armistice junction was reinsulated for 44 kv a distance of 4.48 miles, and the remainder of the line 0.70 mile to Armistice junction was removed.

The 26.4-kv load to Armistice Gold Mines was rearranged to feed from Kerr Addison transformer station by combining two sections and part of a third section and a tap into Kerr Addison transformer station a total distance of 0.86 mile.

The 26.4-kv load to Chesterville Larder Lake Gold Mining Company was rearranged to feed out of Kerr Addison transformer station by a tap connection.

A 26.4-kv, single-circuit, wood-pole transmission line from Peninsular junction 1.00 mile to the Porcupine Peninsular Gold Mines was removed.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Timmins transformer station 1.82 miles to Hollinger pumps distributing station.

A 13.2-kv, single-circuit, wood-pole transmission line was built from Gowganda transformer station 0.74 mile to the Siscoe Gold Mines.

A 13.2-kv, single-circuit, wood-pole transmission line was built from Gowganda transformer station 0.42 mile to Castle-Trethewey No. 1 station.

A 13.2-kv, single-circuit, wood-pole transmission line was built from Gowganda transformer station 0.50 mile to Castle-Trethewey No. 2 station.

Timiskaming District:—The insulation was reduced from 115 kv to 44 kv on wood-pole transmission line from Upper Notch generating station 7.67 miles to Lorrain Interprovincial Boundary junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Murdock junction 0.70 mile to intersect and connect to 15.34 miles of rehabilitated line to Larder City junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Larder City junction 0.57 mile to Larder Lake distributing station.

A 44-kv, single-circuit, wood-pole transmission line, 1.21 miles of new construction, was built, and 5.54 miles of rehabilitated and reinsulated line from Larder City junction to Virginiatown distributing station was connected in to complete the section.

A 44-kv, single-circuit, wood-pole transmission line was built from Upper Notch generating station 14.52 miles to Cobalt transformer station.

MANITOULIN DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line was built from Quarry junction 15.85 miles to Little Current distributing station.

SUDBURY DISTRICT:—A 115-kv, double-circuit, steel-tower transmission line was built from Coniston generating station 6.70 miles to Sudbury frequency changer station.

A 22-kv, single-circuit, wood-pole transmission line was built from Sudbury transformer station 4.40 miles to Minnow Lake junction.

A 22-kv, single-circuit, wood-pole transmission line was built from Sudbury transformer station 2.00 miles to Garson junction.

A 22-kv, single-circuit, wood-pole transmission line was built from Sudbury transformer station 8.95 miles to Blezard Valley distributing station.

A 115-kv tap connection was built to Warren distributing station.

A portion of 22-kv, single-circuit, wood-pole transmission line from Neelon junction 2.60 miles to Garson junction was removed.

NIPISSING DISTRICT:—A 22-kv, wood-pole transmission line from Fisher Street junction 2.55 miles to North Bay municipal station was restrung with heavier conductor.

A 22-kv, single-circuit, wood-pole transmission line was built from North Bay municipal station 38.39 miles to La Cave development for construction purposes.

PATRICIA DISTRICT:—A portion of 44-kv, single-circuit, wood-pole transmission line was built from Red Lake switching station 1.17 miles to the Orlac Red Lake Mine.

A 44-kv, single-circuit, wood-pole transmission line was built from Red Lake switching station 1.04 miles to Hasaga junction.

A 44-kv, single-circuit, wood-pole transmission line was purchased from Sunstrum junction 21.39 miles to Dryden Paper Company.

COMMUNICATIONS—ALL SYSTEMS

SOUTHERN ONTARIO SYSTEM

Telephone

In southern Ontario, a 150-pair communication cable was installed between Kipling transformer station and Toronto-Strachan transformer station. A 50-pair cable was installed connecting Ontario Power transformer station, Niagara transformer station, Allanburg transformer station and DeCew Falls generating station. A 25-pair cable was installed between Allanburg junction and Thorold transformer station and a 15-pair cable between Canadian Niagara Power transformer station and Toronto Power transformer station. A 150-pair communication cable was installed between the Toronto head office and the corner of Dundas and McCaul streets, from which point a 100-pair cable was taken to the Maclean-Hunter building, a 25-pair cable to the Frequency Standardization office on Bathurst street, and a 25-pair cable to the Property department on Richmond street.

A 150-pair communication cable was installed between Westminster transformer station, London transformer station and London-Nelson transformer station. A 100-pair cable was installed from London-Nelson transformer station to London municipal station No. 1 and a 75-pair cable from London municipal station No. 1 to the Western regional office. A 75-pair communication and control cable was installed between Ottawa transformer station and the Ottawa Hydro-Electric Commission's Bronson substation, and a 29-pair cable from this station to Ottawa-Riverdale transformer station. A 25-pair communication cable was installed between Barrie transformer station and the Georgian Bay regional office. Work was completed on the replacement of a 25-pair communication and control cable connecting Meyersburg, Hagues Reach and Ranney Falls generating stations.

The construction of 73.6 miles of single-circuit, 13.1 miles of double-circuit and 3.2 miles of five-circuit telephone line was completed. Single-story telephone line carrier channels were established between Chats Falls generating station and Merivale switching station, and between London transformer station and Toronto-Strachan transformer station.

Second-story telephone line carrier terminals were added to provide additional channels between Barrie transformer station and Toronto-Fairbank transformer station, and between Chats Falls generating station and Toronto-Leaside transformer station.

A four-channel telephone line carrier was established between Niagara and Toronto-Wiltshire transformer stations to provide telemetering and load control facilities for the power supervisor.

Private automatic and branch telephone exchanges to improve telephone traffic were installed at the Georgian Bay regional office in Barrie, the Frequency Standardization office in Toronto, Auburn generating station, Merivale switching station and Kipling transformer station. Communication buildings were completed at Chats Falls and at Toronto-Leaside transformer stations. Teletype facilities were established between Toronto, Des Joachims and La Cave, and a leased telephone circuit was established between Toronto head office and the regional office in North Bay.

Power-Line Carrier

Work commenced on the construction of an extensive network of channels using a power-line carrier system, operating over the high-voltage transmission lines of the new 60-cycle network. These channels will be used for voice, telemetering, load control and relay protection.

Telemetering Circuits

Telemetering instruments were installed at DeCew Falls, Queenston, Ontario Power, Toronto Power and Canadian Niagara Power generating stations to transmit totalized loads to Niagara transformer station and thence to the power supervisor's office in Toronto over a four-channel telephone carrier system through Toronto-Wiltshire transformer station.

THUNDER BAY SYSTEM

Telephone

A 29-pair communication cable and a 19-pair communication cable were installed at Aguasabon, while an 86-pair communication cable was installed between Cameron Falls generating station and Alexander generating station.

Power-Line Carrier

A power-line carrier link between Aguasabon generating station and Alexander generating station was put into service to provide relay protection over the transmission line.

NORTHERN ONTARIO PROPERTIES

Telephone

The construction of 91.4 miles of single-circuit, 14.6 miles of double-circuit and 4.8 miles of four-circuit telephone line was completed. Single-story telephone line carrier channels were established between Timmins transformer station and Coniston generating station, and between the latter and the regional office in North Bay. Private branch telephone exchanges to improve telephone traffic were installed at Lower Sturgeon generating station, Sudbury frequency changer and transformer station and the Sudbury area office. The communication building has been completed at Sudbury frequency changer and transformer station to house telephone and power line carrier equipment.

RADIO

Considerable activity during the year centred around the mobile radio service. The Commission's plans include the provision of 79 radio-equipped line maintenance trucks which it is hoped will be in operation early in 1950. The new system calls for a network of control stations to be erected in southern Ontario.

Approval was obtained and work begun of a new permanent site for the Toronto AM radio station at Ellesmere.

An AM radio station was opened at the new Sudbury frequency changer and transformer station for the use of the Construction division in communicating with Toronto and construction projects. A similar station was provided at La Cave generating station.

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